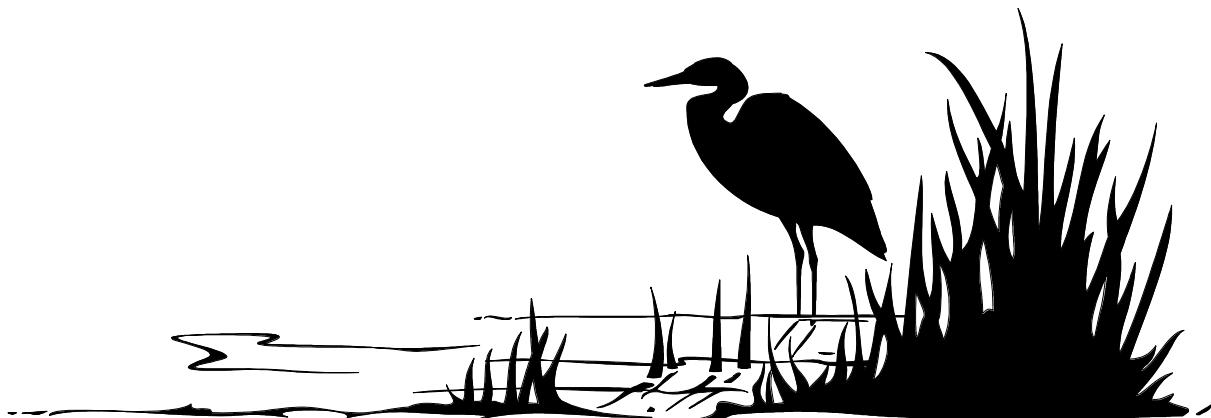
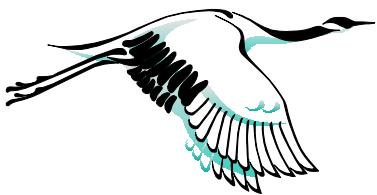


Indiana Fixed Station Statistical Analysis 1997

Indiana Department of Environmental Management



**Office of Water Management
Assessment Branch
May 1998
IDEM 32/02/005/1998**

Indiana Fixed Station Statistical Analysis 1997

By
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May, 1998

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER MANAGEMENT
ASSESSMENT BRANCH
SURVEYS SECTION
IDEM 32/02/005/1998

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Abstract

The fixed station monitoring program managed by the Indiana Department of Environmental Management has been monitoring surface water chemistry throughout the state since 1957. The data set from 1991 to 1997 from this monitoring program was analyzed to determine benchmark characteristics. Important statistics calculated were mean, median, standard deviation, interquartile range, skewness, and the 95% confidence interval. The data set from 1986 to 1995 was also analyzed using the Seasonal Kendall test. This test deduces if a statistical change in the surface water chemistry occurred over the time period. The program objectives were also addressed to determine if the current program methodologies were fulfilling program goals.

Introduction

In 1957, the Division of Sanitary Engineering of the Indiana State Board of Health established 49 sites on major streams in the state of Indiana for the biweekly (later monthly) collection of samples for physical, chemical, bacteriological, and radiological analysis. The program was established to monitor for pollution trends and provide data for the users of the state's surface waters (Indiana State Board of Health 1957). Some of these stations are still being monitored either at the exact same place, or at a place close to the original site.

In 1986, the Indiana Department of Environmental Management (IDEM) was formed through the state legislature. The formation of the agency transferred the responsibility of the surface water monitoring program from the Indiana State Board of Health to the IDEM. Since then, the IDEM's Office of Water Management's Assessment Branch has continued the fixed station monitoring program in an effort to monitor for pollution trends, determine background concentrations for various parameters, and provide data to interested parties. Specifically, the program objectives are:

- , To determine chemical, physical, and bacteriological characteristics of Indiana water under changing conditions;
- , To indicate, when possible, the sources of pollution entering a stream;
- , To compile data for future pollution abatement activities;
- , To determine background data on certain types of wastes, such as chlorides, and to detect critical changes;
- , To obtain data useful for municipal, industrial, agricultural, and recreational uses, and;
- , To procure data useful and necessary for securing public action toward the preservation of streams for all beneficial uses.

The selection of monitoring stations was based on the following criteria:

- , Waters used for municipal, industrial, agricultural, and recreational purposes;
- , Near known or suspected sources of pollution, and;
- , Near state boundaries to determine the quality of water entering or leaving the state.

The location of bridges was an important factor in determining the specific locations of monitoring stations for sampling convenience and to ensure water was obtained from the flowing portion of the channel (Indiana Department of Environmental Management 1990).

As of December 1997, over 100 fixed stations were being monitored. Of these, fifteen were monitored on a quarterly basis instead of monthly. Historically, annual reports were published detailing the raw data that had been collected over the past year. It was determined that a more statistical approach was needed to better characterize the data that had been collected and to

determine if program objectives were being met.

As a result, this document was produced to answer the following questions regarding the data set and the program as a whole:

- , What are the normal (benchmark) concentrations for the various parameters at the fixed stations?
- , What parameters are exhibiting temporal changes in water quality and where?
- , Are design objectives for the program being met?

The Study Area

The fixed station monitoring program monitors surface water at sites throughout the entire state of Indiana. Fixed stations are most dense in the northern and central regions of the state, and least dense in the southern area of the state near the Ohio River (see *plate 1*). Appendix A lists the stations' names, abbreviations, and locations.

Materials and Methods

Two separate statistical programs were used for this analysis. These were WQHYDRO ver 2011, a DOS based program, and STATISTICA release 5, a Windows '95 based program. Two separate databases were used in the course of the analysis. These were STORET, a national EPA database for water quality data, and an in-house database, Paradox 8.0, maintained by the Assessment Branch's staff.

Background Levels

The first task was to establish benchmark data. The 1991 to 1997 data set for each of the fixed stations monitored was downloaded from the Paradox database into STATISTICA. The statistics calculated were the mean, 95% confidence interval, median, sum, minimum, maximum, range, variance, standard deviation, standard error, skewness, standardized skewness, kurtosis, and standardized kurtosis. These parameters describe the shape, spread, and central tendency of the observations. Data that were reported as below the detection limit were assigned a value of one half the detection limit. Narrative explanations and formulas for these statistics are found in Appendix B. Some chemical parameters that are measured by the program were not evaluated in this manner because too many of the observations were below the detection limit to have meaningful tests.

Temporal Changes in Water Quality Parameters

Stream chemistry is highly dynamic and can rapidly change as a result of rainfall events and other anomalies in the watershed. To further complicate this dynamic nature, seasonality can also affect the chemistry of the water. As a result, many types of linear regression will not succeed in determining if a given parameter is actually changing over time due to outliers and seasonal fluctuations.

One method for determining if a given parameter is changing over time is known as the Seasonal Kendall test. This test only compares data that were taken during the same *season*. The season is defined by the user as either months or one of a year's quarterly seasons. In other words, the test only compares like months (January data to January data) or like seasons (Fall data to Fall data) as defined by the user. As a result, the effects of seasonality are eliminated from the test. To reduce the effects of outliers, the test only measures if change occurs between the seasons, not the magnitude of the change. This test is good for a broad-based approach to water quality analysis for a large number of sampling stations, although other tests are better suited to determine if a specific management program or watershed activity is affecting a given sampling station over a period of time (Aroner, 1994). Detailed formulas and an explanation of the test are listed in Appendix C.

The WQHYDRO program was used to conduct the Seasonal Kendall test. Data for this test were downloaded from the EPA's STORET database in an ASCII format, edited into a usable form in the DOS editor, and loaded into WQHYDRO for analysis. The time period studied was from 1986 to 1995. At the time this project was initiated, 1995 was the most recent data in STORET. If an observation was reported below the detection limit, the observation was assigned a value of one half the detection limit. Some of the parameters that have been collected by the agency were not evaluated in this manner because too many observations were below the detection limit or the given parameter was not evaluated often enough to have a meaningful test.

The Seasonal Kendall test produces two important statistics. The first is the significance of the test. The significance indicates if the test statistically found a change in the parameter over time. In general, statisticians prefer to see a significance of 95% or greater to accept that there truly is a change. However, in some cases a significance as low as 80% will be accepted. The second statistic is the slope (rate of change) that the parameter exhibits over the time period. This value can be either positive (increasing) or negative (decreasing). This slope is reported as low as +/- 0.00001, and slopes smaller than this are practically or truly equal to zero.

This document uses these two statistics to create a classification for each test. Table 1 lists the criteria and the classifications a given test can produce.

Table 1. Classifications for Seasonal Kendall Results

Classification	Significance of Test	Reported Slope
Statistically Increasing	95% or Greater	Positive
Potentially Increasing	80% to 94%	Positive
No Change	Less than 80%	Positive or Negative
No Change	80% or Greater	0.00000
Potentially Decreasing	80% to 94%	Negative
Statistically Decreasing	95% or Greater	Negative

Note that it is possible for a test to be highly significant (99%), but have a slope so small (<0.00001) that there is practically no change in the parameter over time. For this reason, an additional classification of "No Change" was included in the course of the analysis.

Results and Discussion

Station Background Levels

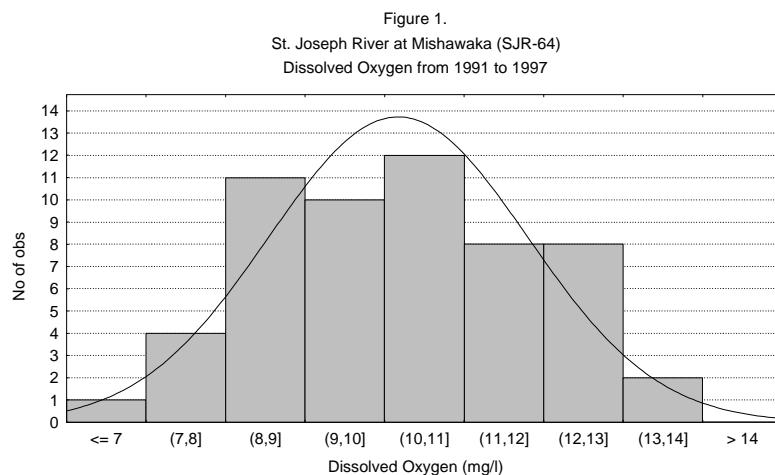
Summary statistics were calculated for each station that is currently being monitored by the department so the benchmark levels for a given station would be defined. The results of these computations are lengthy, so they have been listed in Appendix D. The information that these statistics provide will be useful to IDEM and to other users of the data.

These statistics can be used to create a picture of the background levels for each chemical measurement at each station. Many of these data sets are statistically robust due to a large number of observations, often more than 70. Large data sets decrease the standard deviation and the range of the confidence interval. The fixed stations were sampled regardless of the weather conditions or atypical watershed activities. As a result, some of the observations had elevated concentrations. This adds to the complexity of evaluating background conditions. Twenty-one chemical, field, and bacteriological parameters were evaluated, and are listed throughout Appendix D.

When posed with questions about background levels, people generally want to know what the concentrations for the various chemicals would be if they were to sample the station at any given time. The best way to answer this question is to examine the data's median, mean, 95% confidence interval, interquartile range, standard deviation and skewness.

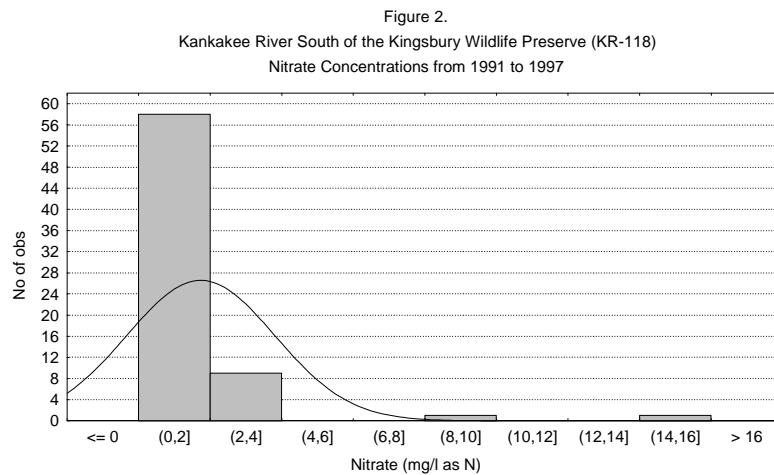
The median and mean are used to describe the most typical value for a given parameter. Ideally, the median value should approximate the mean. However, outliers that are due to anomalous events can result in elevated measurements for the water chemistry, moving the mean from the median. When the absolute value of the skewness is close to zero, the data are close to being evenly distributed on either side of the mean. In this case, the mean is a good approximation of the most typical value. When outliers are affecting the mean of the data set, the median is a better estimate of the most typical concentration for the parameter.

For example, dissolved oxygen was measured 56 times on the St. Joseph River at Mishawaka (SJR-64). The skewness was very close to zero, 0.057537, indicating the data were evenly distributed around the mean (see Figure 1.)



The summary statistics at SJR-64 indicate a mean dissolved oxygen of 10.17125 mg/l and a median of 10.125 mg/l. Looking at Figure 1, the similarity of these two statistics becomes obvious. The data are distributed very evenly on either side of the mean (the apex of the normal curve), so the median (the most central observation) approximates the mean.

The median does not always approximate the mean. This occurs when the magnitude of the skewness increases. For example, Nitrate on the Kankakee River south of the Kingsbury Wildlife Preserve (KR-118) had a skewness of 5.643555. Figure 2 shows the frequency of the data and its relationship to a normal distribution.

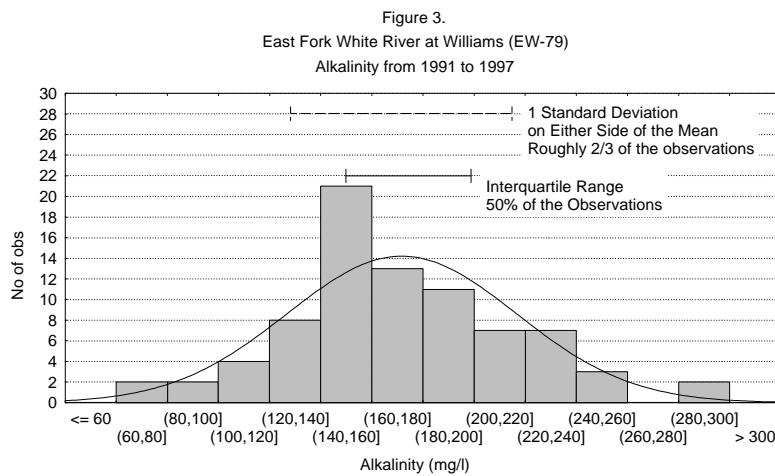


The median nitrate concentration at this station was 1.2 mg/l as N. Unlike the dissolved oxygen graphed in Figure 1, the mean was much higher, 1.737681 mg/l. The outliers seen on the right side of Figure 2 increase the mean and move the normal distribution away from the median. When this occurs, the median is a better statistic to describe the most typical nitrate concentration.

A range of expected values for each parameter is also important when describing background levels for each of the stations. This can be described using the quartile range and the standard deviation. The interquartile range is bounded by the upper quartile and lower quartile values. This range describes where 50% of the observations were measured. Hence, if the station was resampled, it would be expected that any given sample would fit within this range 50% of the time.

The standard deviation can also be used to predict where typical levels for parameters can be found. Roughly two-thirds of the observations should be measured within one standard deviation of the mean when the distribution has a normal shape. However, if the mean is small, the standard deviation could overlap into negative values. Of course, negative parameter values are not possible, so the conclusion would need to be truncated at zero.

For example, on the East Fork White River at Williams, the mean and median alkalinity were calculated to be 171.7 mg/l and 166 mg/l, respectively. The lower quartile was 148 mg/l and the upper quartile was 197 mg/l. The data set was large, 80 observations, therefore it would be expected that any given sample at this location would be in this range 50% of the time. The standard deviation was calculated to be 44.93917 mg/l. It would be expected that any given sample, the alkalinity would be measured between 171.7 mg/l +/- 44.93917 mg/l two-thirds of the time. Figure 3 graphically shows these relationships.



When large numbers of observations for a chemical are gathered, the sample distribution will approximate the distribution of the true population. When the sample distribution approximates a normal shape, the mean of the true population becomes better understood. The 95% confidence interval is the range in which the population's true mean lies with 95% certainty. As the number of observations increases, the statistic for the 95% confidence interval decreases. In other words, the population's true mean is better understood. For example, the 95% confidence interval for the alkalinity in Figure 3 was 161.6993 mg/l to 181.7007 mg/l. Therefore, the statistics indicate a 95% certainty that the mean of the population lies within this range.

Seasonal Kendall Analysis

The fixed stations were also evaluated to determine if there had been statistically valid changes in the water chemistry over time. Data were taken from the STORET database from 1986 to 1995 for this evaluation. The 1996 and 1997 data were not used because it had not been entered into the STORET database for downloading into WQHYDRO at the time this project was initiated.

Twenty parameters were evaluated at the fixed stations. Ten years of data were recommended for this test, so some of the newer fixed stations such as Lake Michigan at Ogden Dunes (LM-OD) were not evaluated. The same parameters were evaluated using the Seasonal Kendall test that were evaluated using the summary statistics except for Total Organic Carbon. Total Organic Carbon has only been measured at selected sites for the past one to two years. Also in some cases, a chemical had been measured at a site, but not frequently enough to have a valid Seasonal Kendall Test.

Approximately 1,500 Seasonal Kendall tests were done for this study. It would be far too lengthy to include all of these graphs in this document. However, Appendix E lists the fixed stations, parameters, and indicates if the parameter was statistically increasing, statistically decreasing, potentially increasing, potentially decreasing, had no statistical change, or was not evaluated due to insufficient data. To give a better appreciation of the product of the Seasonal Kendall tests, Appendix F includes Seasonal Kendall plots and a brief explanation for the Grand Calumet River at East Chicago (GCR-37) that was one of the stations which has shown substantial water quality improvement.

Overall, the water chemistry demonstrated a large number of improvements from 1986 to 1995. Metals, nitrogen parameters such as nitrate + nitrite, ammonia, and TKN, total phosphorus, and oxygen-depleting materials contributing to BOD and COD decreased throughout the state at many stations. Discussion of all of this material could be lengthy and repetitive, but there are important points worth mentioning.

The stations on the Grand Calumet River, GCR-34, GCR-37, and GCR-42, and the stations on the Indiana Harbor Canal, IHC-0, IHC-2, IHC-3S, and IHC-3W, were among the stations which have improved in water quality the most. Dissolved oxygen has shown improvement at all of these stations. This is probably a product of the decreases in BOD and COD that had been affecting many of these stations. All of the stations on the Grand Calumet River and one of the stations on the Indiana Harbor Canal had a statistical decrease in total phosphorus. Most of these stations had a statistical or potential decrease in ammonia and TKN. However, this was often coupled with a statistical increase in nitrate + nitrite. It is possible that the increase in dissolved oxygen has led to a more rapid decomposition of ammonia and organic nitrogen into nitrite and ultimately nitrate. Cyanide also statistically decreased at two of the three Grand Calumet stations and three of the four Indiana Harbor Canal stations.

Although the above stations were rather dynamic during the time period, other stations were very static and had little or no change during from 1986 to 1995. These were often at stations with large volumes of water where influxes or decreases in chemicals would be difficult to detect due to dilution. For example, the West Fork White River at Hazelton (WR-19) did not have any statistical or potential changes over the ten year period for any of the chemicals that were evaluated. This station, on the West Fork White River, has the largest volume of all of the White River stations. Similarly, the station on the Wabash River at Cayuga (WB-256) did not have statistical or potential changes for the water quality parameters.

Program Objectives

In evaluating a large set of data, the question arises, are the program objectives being met? These objectives were initially established in 1957, and were previously listed in the introduction section of this document.

Some of the program goals were to characterize the chemical aspects of the surface water, determine background data on wastes, and the detect critical changes (Indiana Department of Environmental Management 1990). The content of this document achieves these program goals. Through the use of the Seasonal Kendall test, most of the data can be analyzed to determine if it is changing over time. Some of the parameters can not be analyzed with this method because the majority of their observations are below the detection limit. Chemicals which frequently have this problem are trace metals. Through the use of summary statistics, the background levels for the various chemicals become understood. In other words, the aspects of the surface water chemistry, typical concentrations and expected ranges, can be quantified.

Data utility is an important issue in the program objectives. The data that are compiled are requested for use by universities, municipalities, industries, consulting firms, other government agencies, and interested citizens. There are several typical uses of the data by these users. *E. coli* data are used to determine if the surface water is safe for recreational uses. Metals data are examined to determine if a river segment supports aquatic life. The data are also used for stream modeling and waste load allocations through the NPDES program. In some cases, a curiosity about the surface water quality from a typical citizen is satisfied through this data.

It is difficult to determine the sources of pollution entering a stream from a single static sampling station. Problems are rarely specific enough to indicate only a single possible source of the pollutant. If problems are suspected, additional fixed stations have been added to gain a better understanding of where the problem is occurring.

Summary and Conclusion

The fixed station program of IDEM's Assessment Branch was analyzed from 1991 to 1997 to determine background levels through the use of summary statistics. Over 100 fixed stations were analyzed in this manner. These summary statistics describe the shape, spread, and central tendency of the data. This was accomplished through the use of the mean, median, interquartile range, standard deviation, and skewness of the data. The mean of the true population is predicted through the use of the 95% confidence interval.

Data were downloaded from the STORET database from 1986 to 1995 for Seasonal Kendall analysis to determine if temporal changes have been occurring in the water chemistry throughout the state. Twenty surface water chemistry parameters were analyzed using this method for each station when an adequate number of observations had been recorded over the study period.

The design objectives of the fixed station program were also addressed. Data have been gathered to characterize the benchmark concentrations for the various chemicals. The data were analyzed to determine if statistical changes in the data have been occurring. Also, the utility of the data were also examined.

From the analysis of over 200,000 water chemistry observations, it was concluded that:

- There were a large number of improvements in water quality throughout the state. Many of the sites had statistical decreases in metals, total phosphorus, nitrate, BOD, and COD.
- Statistical decreases in nutrients and oxygen demanding materials were often coupled with statistical increases in dissolved oxygen.
- Some of the most improved sites observed were on the Grand Calumet River and the Indiana Harbor Canal.
- The data serve a variety of users to fulfill program objectives. If problems are detected, the source of the pollution may be difficult to determine, but additional sites have been added to gain a better grasp on where the problems occur.

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Indiana State Board of Health, 1957. *Indiana Water Quality 1957 Monitoring Station Records - Rivers and Streams*. Indiana State Board of Health and Stream Pollution Control Board.

Appendix A

Fixed Stations

Abbreviation	Waterbody	Location
BD-1	Burns Ditch at Portage	U.S. Highway 12 Bridge, Portage
BD-2E	Burns Ditch at Portage	State Highway 249 Bridge (Cisman Rd.)
BD-3W	Burns Ditch at Portage	Portage Boat Yard Dock, Portage
BL-.7	Big Blue River at Edinburgh	U.S. Highway 31 Bridge, Edinburgh
BL-64	Big Blue River Near Spiceland	County Road 400S Bridge
BLW-57	Blue River at Fredericksburg	U.S. Highway 150, Fredericksburg
BSC	Bluespring Caverns	Bluespring Caverns, Hartleyville
EC-1	Eagle Creek at Indianapolis	Raymond Street, East of State Highway 67
EC-7	Eagle Creek at Indianapolis	Lynhurst Street Bridge
EC-21	Eagle Creek South of Zionsville	86 th Street Bridge, South of Zionsville
EEL-1	Eel River at Worthington	S.R. 67 Bridge, Worthington
ELL-7	Eel River Near Logansport	C.R. 125N Bridge, NE of Logansport
ELL-41	Eel River at Roann	State Highway 15 Bridge, Roann
ER-.3	Elkhart River at Elkhart	S.R. 120 Bridge, Elkhart
EW-1	East Fork, White River, Petersburg	S. R. 57 Bridge N.E. of Petersburg
EW-79	East Fork, White River, Williams	Williams Dam, Williams
EW-94	East Fork, White River, Bedford	U.S. Highway 50 Bridge, South of Bedford
EW-168	East Fork, White River, Seymour	C.R. 725 N. Bridge
EW-239	East Fork, White River, Columbus	S. R. 46 Bridge, Columbus
FC-.6	Fall Creek-Indianapolis	Stadium Drive Bridge, Indianapolis
FC-7	Fall Creek-Indianapolis	Keystone Avenue Near Water Intake

GCR-34	Grand Calumet River-Hammond	Hohman Avenue Bridge at Hammond
GCR-37	Grand Calumet River-East Chicago	Bridge on Kennedy Avenue, East Chicago
GCR-42	Grand Calumet River-Gary	Bridge Street Bridge, Gary
IHC-0	Indiana Harbor Canal at East Chicago	At Mouth at LTV Steel, E. Chicago
IHC-2	Indiana Harbor Canal at East Chicago	Bridge on Dickey Road, East Chicago
IHC-3S	Indiana Harbor Canal at East Chicago	Bridge on Columbus Drive, East Chicago
IHC-3W	Indiana Harbor Canal at East Chicago	Bridge on Indianapolis Blvd, East Chicago
IWC-9	Indianapolis Waterway Canal at Indianapolis	Guilford Ave. Bridge
KR-68	Kankakee River at Shelby	S.R. 55 Bridge, 1 Mile South of Shelby
KR-118	Kankakee River-Kingsbury Wildlife	U.S. 6 Bridge, South of Kingsbury Wildlife
LCR-13	Little Calumet River at Hammond	Hohman Avenue Bridge, Hammond
LCR-39	Little Calumet River-Porter	S.R. 149, South of U.S. Highway 12, Northwest of Porter
LM-DSP	Dunes State Park	Beach Sample
LM-EC	Lake Michigan at East Chicago	Raw Water, East Chicago Waterworks
LM-G	Lake Michigan at Gary	Raw Water, Gary Waterworks
LM-H	Lake Michigan at Hammond	Raw Water, Hammond Waterworks
LM-M	Lake Michigan at Michigan City	Raw Water, Michigan City Waterworks
LM-OD	Ogden Dunes	Raw Water, Ogden Dunes Waterworks
LM-W	Lake Michigan at Whiting	Raw Water, Whiting Waterworks
M-114	Maumee River at Woodburn	S. R. 101 Bridge, 3 Miles North of Woodburn
M-129	Maumee River at New Haven	Landin Road, .5 Mile North of New Haven

MC-18	Mill Creek at Devore	U.S. 231 Bridge, Devore
MC-35	Mill Creek at Stilesville	U.S. Highway 40 Bridge at Stilesville
MS-1	Mississinewa River at Peru	State Highway 124, East of Peru
MS-28	Mississinewa River at Jalapa	C.R. 500 N. Bridge, East of Jalapa
MS-36	Mississinewa River at Marion	Highland Avenue Bridge, Marion
MS-99	Mississinewa River at Deerfield	C.R. 134E 1 Mile West of U.S. 27/ S.R. 28
MU-20	Muscatatuck River Near Austin	S.R. 39 Bridge West of Austin
P-35	Patoka River Near Oakland City	S.R. 57 Bridge, North of Oakland City
P-76	Patoka River at Huntingburg	Old Huntingburg Road
PC-21	Big Pine Creek at Pine Village	State Road 55 in Pine Village
S-0	Salamonie River-Lagro	Division Road, Near Lagro
S-25	Salamonie River-Lancaster	S.R. 124 Bridge, Lancaster
S-71	Salamonie River at Portland	C.R. 106 South Bridge, Portland
SC-25	Sugar Creek at Shades State Park	S. R. 234 Bridge, Above Shades State Park
SGR-1	Sugar Creek at Edinburgh	Road to Atterbury
SJR-51	St. Joseph River at South Bend	Auten Road Bridge, South Bend
SJR-64	St. Joseph River at Mishawaka	Petro Park Bridge, Mishawaka
SJR-87	St. Joseph River at Bristol	County Road Through Bristol
SLC-1	Salt Creek at Portage	U.S. 20 Bridge, Portage
SLC-17	Salt Creek Near Valparaiso	S. R. 130 Bridge, Below Sewage Treatment Plant
SLT-12	Salt Creek Near Oolitic	Old State Highway 37 Bridge
STJ-.5	St. Joseph River at Fort Wayne	Tennessee Street Bridge
STM-.2	St. Mary's River at Fort Wayne	Spy Run Bridge, Fort Wayne
STM-11	St. Mary's River at Fort Wayne	Ferguson Road Bridge West of Anthony Blvd.
STM-37	St. Mary's River at Pleasant Mills	S.R. 101 Bridge North of Pleasant Mills

TC-.5	Trail Creek at Michigan City	Franklin Street Bridge, Michigan City
TC-1	Trail Creek at Michigan City	U.S. Highway 12 Bridge, Michigan City
TC-2	Trail Creek at Michigan City	Krueger Park Bridge, Michigan City
TC-MC	Twin Caves at Mill Creek	Mill Creek Spring Mill State Park, Mitchell
TR-9	Tippecanoe River Near Delphi	S.R. 18 Bridge, 5 Miles West of Delphi
TR-107	Tippecanoe River at Rochester	U.S. 31 Bridge, Rochester
V-.8	Vermillion River at Cayuga	State Highway 63 Bridge, Cayuga
WB-130	Wabash River at Vincennes	U.S. Highway 50 Bridge, Northwest Edge of Vincennes
WB-183	Wabash River West of Fairbanks	I & M Breed Generation G Station
WB-230	Wabash River at Clinton	S.R. 163 Bridge, Clinton
WB-240	Wabash River at Montezuma	U.S. Highway 36 Bridge, West Edge of Montezuma
WB-256	Wabash River at Cayuga	State Highway 234 Bridge, Cayuga
WB-303	Wabash River Near Lafayette	Granville Bridge Southwest of Lafayette on Road 700W
WB-316	Wabash River at Battleground	S.R. 225, Battleground
WB-347	Wabash River Georgetown	C.R. 675, West of Georgetown
WB-370	Wabash River at Peru	Business U.S. Highway 31 Bridge, Peru
WB-402	Wabash River at Andrews	S.R. 105 Bridge North of Andrews
WB-409	Wabash River Huntington	Etna Rd. Bridge
WB-420	Wabash River Markle	State Highway 3 Bridge
WB-452	Wabash River at Geneva	U.S. 27 Bridge 1.5 Miles North of Geneva
WC-3	Wildcat Creek at Lafayette	S.R. 25 Bridge N.E. of Lafayette
WC-60	Wildcat Creek at Kokomo	County Road 300W 1 Mile West of Kokomo
WC-66	Wildcat Creek at Kokomo	U.S. Highway 31 Bridge

WCS-34	Wildcat Creek South Fork, Frankfort	State Road 39 Bridge, Frankfort
WHE-27	East Fork Whitewater River, Abington	Abington Pike Road Bridge, East Edge Abington
WHW-22	West Fork, Whitewater River, Cedar Grove	S.R. 1 Bridge South of U.S. 52
WL-SL	Wolf Lake at Hammond	Culvert at Stateline at End of 129 th St.
WR-19	White River at Hazelton	Old U.S. 41 Bridge, Hazelton
WR-46	White River at Petersburg	State Highway 61 Bridge, Petersburg
WR-81	White River Edwardsport	SR 358 Bridge, 1 Mile Below Power Generating Station
WR-162	White River at Spencer	Main Street Bridge, Spencer
WR-192	White River at Martinsville	SR 39 Bridge, Martinsville
WR-210	White River at Waverly	SR 144 Bridge, Waverly
WR-248	White River at Nora	86 th Street, Nora
WR-279	White River at Perkinsville	State Highway 13 Bridge
WR-293	White River at Anderson	8 th St. Bridge, Anderson
WR-309	White River at Yorktown	Tiger Dr. Bridge, Yorktown
WR-319	White River at Muncie	Memorial Drive, East Edge of Muncie
WR-348	White River Near Winchester	U.S. 27 Bridge, East of Winchester

Appendix B

Statistical Definitions

Mean: $\bar{x} = \sum x_i / n$

Median: The observation where half of the observations are greater and half are lower. If the sampling group has an even number, it is the average of the two central observations.

Variance: $S^2 = (1/n-1) \sum (x_i - \bar{x})^2$

Standard Deviation: $S = (S^2)^{1/2}$

95% Confidence Interval: $\bar{x} \pm (t)(S)(n)^{1/2}$

Standard Error: $S/n^{(1/2)}$

Minimum: The observation that is the smallest.

Maximum: The observation that is the largest.

Range: The difference of the maximum and minimum.

Lower Quartile: The observation where 25% of the observations are smaller.

Upper Quartile: The observation where 75% of the observations are smaller.

Quartile Range: The difference between the upper and lower quartile values.

Skewness: $\frac{n \sum (x_i - \bar{x})^3}{(n-1)(n-2)S^3}$

Standardized Skewness: $\frac{n^{1/2}(\text{Skewness})}{6^{1/2}}$

Kurtosis: $\frac{n(n+1) \sum (x_i - \bar{x})^4}{(n-1)(n-2)(n-3)S^4} - \frac{3(n-1)^2}{(n-2)(n-3)}$

Standardized Kurtosis: $\frac{n^{1/2}(\text{Kurtosis})}{24^{1/2}}$

Sum: $\sum X_i$

Appendix C

Seasonal Kendall Test

Formulas and Explanation

The Seasonal Kendall test is derived from the Mann-Kendall Test. The Mann-Kendall test has the null hypothesis that the variables are random with respect to time. A stepwise iterative comparison is made from one observation to the next. A score of +1 is awarded if the difference from one data point to the next increases. Likewise, a score of -1 is awarded if the difference from one point to the next decreases. Below is the S test statistic.

$$S = \sum_{k=1}^{n-1} \sum_{j=k+1}^n sign(x_j - x_k)$$

Therefore, as S becomes larger in magnitude, either positive or negative, the significance of the test increases. If S becomes large enough, the null hypothesis is disproven, and it is concluded that a trend exists. The statistical significance of S is dependent on the variance. The variance for this test is defined below.

$$Var(S) = \{n(n-1)(2n+5) - \sum_{j=1}^p [t_j(t_j-1)(2t_j+5)]\} / 18$$

t_j is the number of observations in a given tie. This term drops out if there are no ties.

The S statistic and the Variance are used to calculate the Z score.

$$\begin{aligned} Z &= (S-1)/[Var(S)]^{1/2} \text{ if } S > 0 \\ Z &= 0 \text{ if } S = 0 \\ Z &= (S+1)/[Var(S)]^{1/2} \text{ if } S < 0 \end{aligned}$$

When the Z score exceeds the statistically critical value, the null hypothesis is rejected leading to the conclusion that a trend exists.

The Mann-Kendall is a monotonic test, not taking into account seasonality. The Seasonal Kendall test divides the data into like *seasons*. *Seasons* are defined by the user of the test as either months or quarterly seasons of the year. Intermediate statistics, S_i , are calculated for each of the user defined seasons in the same manner as the formula for the Mann-Kendall Test. The influence of seasonality is eliminated since observations are only compared to observations from the same season. The S_i statistic for each season are then summed to yield a global statistic S_T . Likewise, a variance is calculated for each of the S_i statistics and summed to yield the statistic $Var(S_T)$.

The Z score for the Seasonal Kendall Test is listed below.

$$\begin{aligned}Z &= (S_T - 1) / [\text{Var}(S_T)]^{1/2} \text{ if } S_T > 0 \\Z &= 0 \text{ if } S_T = 0 \\Z &= (S_T + 1) / [\text{Var}(S_T)]^{1/2} \text{ if } S_T < 0\end{aligned}$$

For the Seasonal Kendall test, if the Z score exceeds the critical value, the null hypothesis is rejected and the conclusion is made that a trend exists.

Note: The information for this appendix was taken from Aroner, 1994.

Appendix D
Fixed Stations Summary Statistics
1991-1997

Station: BD-1																	
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness
Alkalinity (mg/l)	76	172.75000	166.60538	178.89462	173	13129	116	259	154.5	187.5	143	33	723.07000	26.88996	3.08449	0.42373	0.27564
Ammonia (mg/l as N)	77	0.19935	0.17856	0.22014	0.2	15.35	0.05	0.4	0.1	0.2	0.35	0.1	0.00839	0.09158	0.01044	0.30980	0.27391
BOD (mg/l)	36	2.00833	1.60919	2.40748	1.65	72.3	0.5	5.5	1.25	2.6	5	1.35	1.39164	1.17968	0.19661	1.20101	0.39254
COD (mg/l)	77	19.39351	17.74693	21.04008	18	1493.3	9.8	48.1	14	23.2	38.3	9.2	52.62798	7.25451	0.82673	1.38487	0.27391
Cyanide (mg/l)	74	0.00528	0.00501	0.00556	0.005	0.391	0.005	0.013	0.005	0.005	0.008	0	0.00000	0.00118	0.00014	5.02584	0.27920
Nitrate (mg/l as N)	77	1.82987	0.87198	2.78776	1.1	140.9	0.7	38	0.9	1.8	37.3	0.9	17.81107	4.22032	0.48095	8.49934	0.27391
Total Phosphorus (mg/l as P)	77	0.09682	0.08376	0.10987	0.08	7.455	0.015	0.36	0.06	0.12	0.345	0.06	0.00331	0.05752	0.00655	2.10760	0.27391
Total Solids (mg/l)	75	418.60000	403.59863	433.60137	419	31395	198	616	382	446	418	64	4251.16216	65.20094	7.52876	0.16227	0.27740
Suspended Solids (mg/l)	76	26.57895	19.39891	33.75898	16.5	2020	2	176	10	28.5	174	18.5	987.28702	31.42112	3.60425	3.08589	0.27564
Dissolved Solids (mg/l)	74	374.22973	358.74370	389.71576	365.5	27693	254	602	326	405	348	79	4467.85061	66.84198	7.77022	0.84973	0.27920
Sulfate (mg/l)	0																
TKN (mg/l as N)	77	0.95117	0.87999	1.02235	0.9	73.24	0.4	1.9	0.7	1.1	1.5	0.4	0.09834	0.31360	0.05574	0.83107	0.27391
E. coli (CFU/100ml)	73	620.82877	411.74264	829.91490	200	45320.5	0.5	4000	100	670	3999.5	570	803076.11263	896.14514	104.88586	2.09740	0.28103
TOC (mg/l)	1	8.10000				8.1	8.1	8.1									
Hardness (mg/l)	76	251.78947	243.60390	259.97504	253	19136	162	360	226.5	276.5	198	50	1283.18175	35.82153	4.10901	0.15119	0.27564
Chloride (mg/l)	76	54.05263	49.46724	58.63802	51.5	4108	22	125	40.5	60	103	19.5	402.66386	20.06649	2.30178	1.64209	0.27564
Dissolved Oxygen (mg/l)	58	9.11328	8.69582	9.53074	8.8	528.57	6.29	12.2	7.86	10.32	5.91	2.46	2.52074	1.58768	0.20847	0.13505	0.31372
pH	57	7.87860	7.80783	7.94936	7.86	449.08	7.2	8.4	7.72	8.05	1.2	0.33	0.07113	0.26670	0.03533	-0.20475	0.31633
Copper (ug/l)	76	4.24737	3.74100	4.75374	4	322.8	2	10	2	5.8	8	3.8	4.91053	2.21597	0.25419	0.77861	0.27564
Iron (ug/l)	76	1294.60526	987.05306	1602.15747	900	98390	10	8000	575	1350	7990	775	1811457.17544	1345.90385	154.38576	3.27964	0.27564
Zinc (ug/l)	76	21.36316	14.55278	28.17354	13.5	1623.6	4.5	240	10	20	235.5	10	888.24556	29.80345	3.41869	5.77430	0.27564

Station: BD-2E																	
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness
Alkalinity (mg/l)	74	169.18919	162.06451	176.31387	165	12520	98	259	152	179	161	27	945.68974	30.75207	3.57486	1.17129	0.27920
Ammonia (mg/l as N)	76	0.22368	0.20057	0.24680	0.2	17	0.05	0.6	0.2	0.3	0.55	0.1	0.01023	0.10115	0.01160	0.75375	0.27564
BOD (mg/l)	35	1.74286	1.38082	2.10489	1.6	61	0.5	6	1.3	2.1	5.5	0.8	1.11076	1.05392	0.17815	1.99656	0.39769
COD (mg/l)	76	16.28158	14.75172	17.81144	14	1237.4	7	38.8	12	19	31.8	7	44.82232	6.69495	0.76796	1.50283	0.27564
Cyanide (mg/l)	75	0.00539	0.00517	0.00561	0.005	0.404	0.005	0.009	0.005	0.005	0.004	0	0.00000	0.00096	0.00011	2.47087	0.27740
Nitrate (mg/l as N)	76	1.83421	-0.05718	3.72560	0.8	139.4	0.6	73	0.7	1	72.4	0.3	68.50948	8.27705	0.94944	8.70192	0.27564
Total Phosphorus (mg/l as P)	76	0.06362	0.05464	0.07260	0.05	4.835	0.015	0.2	0.04	0.07	0.185	0.03	0.00154	0.03929	0.00451	1.84389	0.27564
Total Solids (mg/l)	73	373.36986	361.68713	385.05260	367	27256	269	596	344	388	327	44	2507.23630	50.07231	5.86052	1.75337	0.28103
Suspended Solids (mg/l)	74	21.28378	15.31507	27.25250	13	1575	2	150	8	22	148	14	663.71288	25.76263	2.99484	3.01154	0.27920
Dissolved Solids (mg/l)	0																
Sulfate (mg/l)	0																
TKN (mg/l as N)	76	0.79421	0.73256	0.85586	0.7	60.36	0.5	1.8	0.6	0.9	1.3	0.3	0.07279	0.26979	0.03095	1.68667	0.27564
E. coli (CFU/100ml)	74	387.39189	205.42193	569.36186	130	28667	0.5	5500	40	380	5499.5	340	616904.30322	785.43256	91.30468	4.76285	0.27920
TOC (mg/l)	0																
Hardness (mg/l)	74	235.86486	227.86743	243.86230	234.5	17454	150	342	220	254	192	34	1191.57053	34.51913	4.01277	0.31051	0.27920
Chloride (mg/l)	74	44.09459	40.60783	47.58136	43	3263	19	110	34	47	91	13	226.49778	15.04984	1.74951	2.20419	0.27920
Dissolved Oxygen (mg/l)	57	9.10596	8.66805	9.54388	8.9	519.04	6.2	13.6	7.86	10.31	7.4	2.45	2.72394	1.65044	0.21861	0.49537	0.31633
pH	56	7.87125	7.79772	7.94478	7.9	440.79	7.19	8.48	7.705	8.04	1.29	0.335	0.07540	0.27458	0.03669	-0.37194	0.31900
Copper (ug/l)	1	2.00000				2	2	2									
Iron (ug/l)	76	1090.39474	891.47851	1289.31097	785	82870	260	4700	565	1200	4440	635	757758.50877	870.49326	99.85242	2.12603	0.27564
Zinc (ug/l)	1	31				31	31	31									

Station: BD-3W																
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Skewness
Alkalinity (mg/l)	74	190.35135	182.26276	198.43994	190	14086	109	274	170	214	165	44	1218.88856	34.91258	4.05851	-0.12313
Ammonia (mg/l as N)	75	0.18467	0.15759	0.21174	0.2	13.85	0.05	0.6	0.1	0.3	0.55	0.2	0.01385	0.11768	0.01359	0.85216
BOD (mg/l)	35	2.85429	2.29333	3.41524	2.2	99.9	0.5	7	1.8	3.8	6.5	2	2.66667	1.63299	0.27603	0.93497
COD (mg/l)	75	26.58667	24.97931	28.19402	26.7	1994	6.8	45	23	30	38.2	7	48.80550	6.98609	0.80668	0.04652
Cyanide (mg/l)	74	0.00557	0.00518	0.00595	0.005	0.412	0.005	0.014	0.005	0.005	0.009	0	0.00000	0.00166	0.00019	3.49674
Nitrate (mg/l as N)	75	2.06933	1.86435	2.27432	2.1	155.2	0.3	5.1	1.4	2.7	4.8	1.3	0.79378	0.89094	0.10288	0.65305
Total Phosphorus (mg/l as P)	75	0.16960	0.15439	0.18481	0.16	12.72	0.05	0.35	0.12	0.21	0.3	0.09	0.00437	0.06610	0.00763	0.49999
Total Solids (mg/l)	73	523.67123	504.07239	543.27008	518	38228	317	739	480	576	422	96	7056.14041	84.00084	9.83155	0.12694
Suspended Solids (mg/l)	74	35.01351	26.92446	43.10256	25.5	2591	4	198	19	40	194	21	1219.02721	34.91457	4.05874	3.18203
Dissolved Solids (mg/l)	0															
Sulfate (mg/l)	0															
TKN (mg/l as N)	75	1.29347	1.21925	1.36768	1.3	97.01	0.7	2.2	1	1.5	1.5	0.5	0.10404	0.32255	0.03724	0.53644
E. coli (CFU/100ml)	71	857.35211	464.54642	1250.15781	340	60872	0.5	11000	90	750	10999.5	660	2754058.78139	1659.53571	196.95065	4.17899
TOC (mg/l)	0															
Hardness (mg/l)	74	289.68919	277.79954	301.57884	298	21437	153	432	260	330	279	70	2633.64180	51.31902	5.96571	-0.29920
Chloride (mg/l)	74	74.25676	67.73125	80.78226	72	5495	21	180	60	88	159	28	793.31673	28.16588	3.27422	0.93949
Dissolved Oxygen (mg/l)	56	9.23536	8.65240	9.81831	9.385	517.18	5.27	13.61	7.44	10.92	8.34	3.48	4.73850	2.17681	0.29089	0.03209
pH	55	7.78000	7.68027	7.87973	7.76	427.9	6.75	8.85	7.59	7.98	2.1	0.39	0.13609	0.36890	0.04974	0.15927
Copper (ug/l)	1	2.00000				2	2	2								
Iron (ug/l)	1	1600.00000				1600	1600	1600								
Zinc (ug/l)	1	21.00000				21	21	21								

Station: BL-7																	
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Skewness	
Alkalinity (mg/l)	21	248.04762	233.59960	262.49564	257	5209	143	278	237	269	135	32	1007.44762	31.74032	6.92630	-0.03213	0.50119
Ammonia (mg/l as N)	21	0.05714	0.04898	0.06530	0.05	1.2	0.05	0.1	0.05	0.05	0.05	0	0.00032	0.01793	0.00391	2.20174	0.50119
BOD (mg/l)	19	0.94211	0.74188	1.14233	1	17.9	0.5	1.6	0.5	1.3	1.1	0.8	0.17257	0.41542	0.09530	0.07640	0.52377
COD (mg/l)	0																
Cyanide (mg/l)	0																
Nitrate (mg/l as N)	21	3.60952	3.28544	3.93361	3.7	75.8	2.6	5.2	3	4	2.6	1	0.50690	0.71197	0.15537	0.43462	0.50119
Total Phosphorus (mg/l as P)	21	0.10667	0.07912	0.13422	0.1	2.24	0.03	0.31	0.07	0.14	0.28	0.07	0.00366	0.06053	0.01321	1.96513	0.50119
Total Solids (mg/l)	21	430.66667	416.76322	444.57011	431	9044	351	474	414	457	123	43	932.93333	30.54396	6.66524	-0.86749	0.50119
Suspended Solids (mg/l)	21	17.71429	3.93599	31.49258	9	372	2	143	5	22	141	17	916.21429	30.26903	6.60524	3.86592	0.50119
Dissolved Solids (mg/l)	7	363.00000	306.29456	419.70544	355	2541	266	448	318	423	182	105	3759.33333	61.31340	23.17429	-0.17462	0.79373
Sulfate (mg/l)	7	38.00000	27.37433	48.62567	38	266	21	56	30	47	35	17	132.00000	11.48913	4.34248	0.15970	0.79373
TKN (mg/l as N)	7	0.61429	0.36141	0.86716	0.6	4.3	0.4	1.2	0.4	0.6	0.8	0.2	0.07476	0.27343	0.10335	2.05181	0.79373
E. coli (CFU/100ml)	21	584.28571	43.49320	1125.07823	160	12270	10	5300	50	300	5290	250	1411455.71429	1188.04702	259.25311	3.47984	0.50119
TOC (mg/l)	7	2.50000	1.68145	3.31855	2.5	17.5	0.9	3.8	2.1	3	2.9	0.9	0.78333	0.88506	0.33452	-0.61590	0.79373
Hardness (mg/l)	21	302.47619	280.25653	324.69585	322	6352	190	358	272	338	168	66	2382.76190	48.81354	10.65199	-1.08341	0.50119
Chloride (mg/l)	7	29.14286	20.55907	37.72664	27	204	14	42	26	39	28	13	86.14286	9.28132	3.50801	-0.13440	0.79373
Dissolved Oxygen (mg/l)	15	10.49133	9.59953	11.38314	10.34	157.37	8.11	13.07	8.78	12.03	4.96	3.25	2.59334	1.61039	0.41580	-0.05520	0.58012
pH	15	7.98667	7.80701	8.16633	8.07	119.8	7.34	8.36	7.88	8.23	1.02	0.35	0.10525	0.32443	0.08377	-1.00059	0.58012
Copper (ug/l)	7	5.60000	3.50799	7.69201	5.2	39.2	2	8.8	4.8	8.1	6.8	3.3	5.11667	2.26201	0.85496	0.01851	0.79373
Iron (ug/l)	7	1145.57143	-352.32106	2643.46392	780	8019	89	4700	180	1200	4611	1020	2623147.28571	1619.61331	612.15629	2.30693	0.79373
Zinc (ug/l)	7	8.90714	1.68769	16.12659	7.4	62.35	2.25	26	4.9	8.3	23.75	3.4	60.93536	7.80611	2.95043	2.25823	0.79373

Station: BL-64

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error
Alkalinity (mg/l)	25	272.08000	259.40540	284.75460	274	6802	167	308	267	291	141	24	942.82667	30.70548	6.14110
Ammonia (mg/l as N)	25	0.13000	0.06528	0.19472	0.05	3.25	0.05	0.8	0.05	0.2	0.75	0.15	0.02458	0.15679	0.03136
BOD (mg/l)	24	1.34583	0.67332	2.01835	1.1	32.3	0.5	8.3	0.5	1.6	7.8	1.1	2.53650	1.59264	0.32510
COD (mg/l)	24	11.00833	8.23437	13.78230	9	264.2	5.5	37	7.7	12	31.5	4.3	43.15558	6.56929	1.34095
Cyanide (mg/l)	23	0.00961	0.00787	0.01135	0.01	0.221	0.005	0.02	0.006	0.012	0.015	0.006	0.00002	0.00402	0.00084
Nitrate (mg/l as N)	25	6.04000	4.72746	7.35254	5.1	151	0.7	16	4.3	8	15.3	3.7	10.11083	3.17975	0.63595
Total Phosphorus (mg/l as P)	25	0.11180	0.08396	0.13964	0.1	2.795	0.015	0.3	0.07	0.15	0.285	0.08	0.00455	0.06744	0.01349
Total Solids (mg/l)	25	529.08000	503.94590	554.21410	528	13227	430	647	476	565	217	89	3707.57667	60.88987	12.17797
Suspended Solids (mg/l)	25	16.00000	2.07009	29.92991	6	400	1	168	2	16	167	14	1138.83333	33.74660	6.74932
Dissolved Solids (mg/l)	7	490.42857	426.41602	554.44112	510	3433	378	574	436	558	196	122	4790.61905	69.21430	26.16055
Sulfate (mg/l)	7	77.42857	54.87006	99.98708	79	542	41	110	60	105	69	45	594.95238	24.39165	9.21918
TKN (mg/l as N)	7	0.60000	0.42291	0.77709	0.6	4.2	0.4	1	0.5	0.6	0.6	0.1	0.03667	0.19149	0.07237
E. coli (CFU/100ml)	24	3622.50000	-154.71497	7399.71497	400	86940	10	34000	140	1300	33990	1160	80016106.52174	8945.17225	1825.92564
TOC (mg/l)	7	2.62857	2.19244	3.06470	2.5	18.4	2.1	3.5	2.2	2.9	1.4	0.7	0.22238	0.47157	0.17824
Hardness (mg/l)	25	360.48000	341.30642	379.65358	367	9012	220	426	344	390	206	46	2157.59333	46.44990	9.28998
Chloride (mg/l)	7	37.71429	32.27643	43.15215	39	264	29	46	31	41	17	10	34.57143	5.87975	2.22234
Dissolved Oxygen (mg/l)	21	10.78238	9.95350	11.61127	11	226.43	7.92	14.52	9.72	11.8	6.6	2.08	3.31585	1.82095	0.39736
pH	21	7.96810	7.85671	8.07948	7.92	167.33	7.46	8.41	7.84	8.11	0.95	0.27	0.05988	0.24470	0.05340
Copper (ug/l)	7	3.31429	0.87471	5.75386	2	23.2	2	9	2	4.2	7	2.2	6.95810	2.63782	0.99700
Iron (ug/l)	7	631.42857	76.61288	1186.24426	340	4420	220	1900	270	840	1680	570	359880.95238	599.90079	226.74118
Zinc (ug/l)	7	9.83571	3.62507	16.04635	9	68.85	2.25	23	5.7	13	20.75	7.3	45.09560	6.71533	2.53815

Station: BLW-57

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Std.Err.	Std.Err.		
Alkalinity (mg/l)	22	153.95455	142.65274	165.25635	149	3387	111	212	138	165	101	27	649.75974	25.49039	5.43457	0.76189	0.49096	0.75897	0.95278
Ammonia (mg/l as N)	22	0.05227	0.04755	0.05700	0.05	1.15	0.05	0.1	0.05	0.05	0.05	0	0.00011	0.01066	0.00227	4.69042	0.49096	22.00000	0.95278
BOD (mg/l)	19	1.11579	0.48628	1.74530	0.5	21.2	0.5	5.5	0.5	1.1	5	0.6	1.70585	1.30608	0.29964	2.75453	0.52377	7.51782	1.01427
COD (mg/l)	0																		
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	21	2.28095	1.84325	2.71865	2.4	47.9	0.3	4.1	1.8	2.9	3.8	1.1	0.92462	0.96157	0.20983	-0.20233	0.50119	0.00307	0.97194
Total Phosphorus (mg/l as P)	21	0.06167	0.01985	0.10349	0.05	1.295	0.015	0.45	0.015	0.06	0.435	0.045	0.00844	0.09187	0.02005	4.12086	0.50119	18.08288	0.97194
Total Solids (mg/l)	22	248.54727	220.40953	276.68502	260	5468.04	0.04	315	230	281	314.96	51	4027.50345	63.46261	13.53027	-3.00198	0.49096	11.63336	0.95278
Suspended Solids (mg/l)	22	22.36364	-1.17069	45.89797	5.5	492	2	243	3	16	241	13	2817.48052	53.07994	11.31668	3.86950	0.49096	15.69631	0.95278
Dissolved Solids (mg/l)	1	177.00000				177	177	177											
Sulfate (mg/l)	1	4.00000				4	4	4											
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	19	1191.05263	-892.16280	3274.26807	80	22630	5	19000	20	320	18995	300	18681084.94152	4322.16207	991.57198	4.32737	0.52377	18.80297	1.01427
TOC (mg/l)	0																		
Hardness (mg/l)	21	191.00000	172.41490	209.58510	198	4011	106	276	171	212	170	41	1667.00000	40.82891	8.90960	-0.39413	0.50119	0.55577	0.97194
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	17	10.17706	9.25821	11.09591	9.71	173.01	7	12.95	8.99	12.25	5.95	3.26	3.19380	1.78712	0.43344	0.28764	0.54975	-0.90642	1.06320
pH	16	7.81688	7.61312	8.02063	7.845	125.07	7.2	8.65	7.535	8.045	1.45	0.51	0.14621	0.38237	0.09559	0.38974	0.56431	0.04585	1.09077
Copper (ug/l)																			
Iron (ug/l)																			
Zinc (ug/l)																			

Station: BSC

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	28	225.03571	209.91715	240.15428	235	6301	127	276	208	253.5	149	45.5	1520.18386	38.98954	7.36833	-0.91044	0.44052	0.57146	0.85833
Ammonia (mg/l as N)	37	0.05000				0.05	1.85	0.05	0.05	0.05	0	0	0.00000	0.00000	0.00000				
BOD (mg/l)	16	0.65000	0.42393	0.87607	0.5	10.4	0.5	2	0.5	0.5	1.5	0	0.18000	0.42426	0.10607	2.82843	0.56431	7.50000	1.09077
COD (mg/l)	36	5.14444	2.80835	7.48054	2.5	185.2	2.5	42	2.5	6.55	39.5	4.05	47.66997	6.90434	1.15072	4.63371	0.39254	24.36877	0.76808
Cyanide (mg/l)	34	0.00500			0.005	0.17	0.005	0.005	0.005	0.005	0	0	0.00000	0.00000	0.00000				
Nitrate (mg/l as N)	37	2.41351	1.72123	3.10580	2	89.3	1.3	14	1.7	2.2	12.7	0.5	4.31120	2.07634	0.34135	5.13861	0.38759	28.66635	0.75872
Total Phosphorus (mg/l as P)	37	0.02892	0.02317	0.03467	0.03	1.07	0.015	0.08	0.015	0.04	0.065	0.025	0.00030	0.01725	0.00284	1.25396	0.38759	1.16053	0.75872
Total Solids (mg/l)	37	344.86486	327.09756	362.63217	354	12760	167	477	310	377	310	67	2839.67568	53.28861	8.76059	-0.65289	0.38759	2.73615	0.75872
Suspended Solids (mg/l)	36	4.69444	3.19471	6.19418	2	169	1	19	2	6.5	18	4.5	19.64683	4.43247	0.73875	1.81836	0.39254	3.00888	0.76808
Dissolved Solids (mg/l)	17	337.05882	310.66091	363.45673	350	5730	263	445	290	372	182	82	2636.05882	51.34256	12.45240	0.28507	0.54975	-0.60575	1.06320
Sulfate (mg/l)	19	32.15789	28.08943	36.22635	30	611	22	56	27	36	34	9	71.25146	8.44106	1.93651	1.30033	0.52377	2.18961	1.01427
TKN (mg/l as N)	36	0.15972	0.12055	0.19889	0.1	5.75	0.05	0.5	0.05	0.2	0.45	0.15	0.01340	0.11577	0.01930	1.05107	0.39254	0.65086	0.76808
E. coli (CFU/100ml)	35	420.85714	131.51776	710.19653	140	14730	5	4100	40	320	4095	280	709465.420170	842.29770	142.37430	3.32110	0.39769	11.52099	0.77779
TOC (mg/l)	18	0.72778	0.41151	1.04405	0.4	13.1	0.25	2.3	0.25	0.9	2.05	0.65	0.40448	0.63599	0.14990	1.33479	0.53628	0.95532	1.03780
Hardness (mg/l)	35	254.82857	237.31491	272.34223	272	8919	122	314	221	296	192	75	2599.38151	50.98413	8.61789	-0.87537	0.39769	-0.09164	0.77779
Chloride (mg/l)	19	17.21053	14.59229	19.82876	17	327	9	25	12	21	16	9	29.50877	5.43220	1.24623	-0.03085	0.52377	-1.30796	1.01427
Dissolved Oxygen (mg/l)	26	9.24692	8.74915	9.74470	9.56	240.42	5.2	10.6	9.23	9.9	5.4	0.67	1.51880	1.23240	0.24169	-1.98153	0.45556	4.02213	0.88651
pH	27	7.40593	7.27424	7.53761	7.31	199.96	7.01	8.27	7.15	7.57	1.26	0.42	0.11082	0.33289	0.06407	0.92700	0.44785	0.19836	0.87207
Copper (ug/l)	37	3.26486	1.41161	5.11812	2	120.8	2	35	2	2	33	0	30.89568	5.55839	0.91379	5.50887	0.38759	31.68187	0.75872
Iron (ug/l)	37	211.70270	125.14818	298.25722	100	7833	10	1200	58	230	1190	172	67391.49249	259.59871	42.67777	2.47240	0.38759	6.57653	0.75872
Zinc (ug/l)	37	7.23243	5.75109	8.71378	5	267.6	2.25	22	5	10	19.75	5	19.73961	4.44293	0.73041	1.58296	0.38759	3.41690	0.75872

Station: EC-1

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	74	196.06757	187.91335	204.22179	202.5	14509	101	261	174	220	160	46	1238.74880	35.19586	4.09144	-0.49817	0.27920	0.01462	0.55168
Ammonia (mg/l as N)	75	0.32667	0.24711	0.40622	0.2	24.5	0.05	1.5	0.05	0.5	1.45	0.45	0.11955	0.34576	0.03992	1.54903	0.27740	2.06749	0.54821
BOD (mg/l)	35	2.80571	2.23509	3.37634	2.4	98.2	0.5	6.7	1.7	3.8	6.2	2.1	2.75938	1.66114	0.28078	0.86485	0.39769	0.00114	0.77779
COD (mg/l)	75	19.51600	17.92232	21.10968	18	1463.7	9.4	48	14.7	22.4	38.6	7.7	47.97839	6.92664	0.79982	1.78655	0.27740	4.29128	0.54821
Cyanide (mg/l)	73	0.00641	0.00575	0.00708	0.005	0.468	0.005	0.021	0.005	0.007	0.016	0.002	0.00001	0.00285	0.00033	0.303740	0.28103	11.11063	0.55522
Nitrate (mg/l as N)	75	2.76733	2.49388	3.04079	2.6	207.55	0.05	5.9	2.2	3.6	5.85	1.4	1.41260	1.18853	0.13724	0.28530	0.27740	0.31346	0.54821
Total Phosphorus (mg/l as P)	75	0.17940	0.13872	0.22008	0.12	13.455	0.015	1.28	0.08	0.22	1.265	0.14	0.03126	0.17682	0.02042	3.68746	0.27740	19.86874	0.54821
Total Solids (mg/l)	75	492.89333	468.34221	517.44445	493	36967	295	835	408	559	540	151	11386.44793	106.70730	12.32150	0.48638	0.27740	0.38204	0.54821
Suspended Solids (mg/l)	75	17.86667	10.70545	25.02788	9	1340	1	204	5	16	203	11	968.76577	31.12500	3.59401	0.27740	20.24163	0.54821	
Dissolved Solids (mg/l)	22	474.81818	423.15736	526.47900	476	10446	285	822	395	532	537	137	13576.25108	116.51717	24.84154	0.97402	0.49096	2.71261	0.95278
Sulfate (mg/l)	22	59.68182	49.00622	70.35741	60.5	1313	34	145	46	63	111	17	579.75108	24.07802	5.13345	2.29951	0.49096	7.27240	0.95278
TKN (mg/l as N)	75	1.25333	1.11209	1.39457	1.1	94	0.4	3	0.8	1.5	2.6	0.7	0.37685	0.61388	0.07088	1.22795	0.27740	1.00015	0.54821
E. coli (CFU/100ml)	72	4445.27778	-871.41535	9761.97091	260	320060	5	170000	70	860	169995	790	511905792.87950	22625.33520	2666.42132	6.53882	0.28290	44.40443	0.55883
TOC (mg/l)	22	4.12500	3.44176	4.80824	4.1	90.75	0.25	7.8	3.2	4.6	7.55	1.4	2.37470	1.54101	0.32854	0.08913	0.49096	1.83630	0.95278
Hardness (mg/l)	74	274.25676	263.87934	284.63417	280.5	20295	160	368	242	310	208	68	2006.30304	44.79177	5.20694	-0.19171	0.27920	-0.48400	0.55168
Chloride (mg/l)	22	88.45455	65.83611	111.07298	77.5	1946	36	280	58	105	244	47	2602.45022	51.01422	10.87627	2.64916	0.49096	9.42076	0.95278
Dissolved Oxygen (mg/l)	58	10.34483	9.87170	10.81795	10.265	600	6.3	14.78	9.1	11.59	8.48	2.49	3.23783	1.79940	0.23627	0.25048	0.31372	-0.31331	0.61814
pH	58	7.99207	7.90346	8.08068	7.995	463.54	7.07	8.71	7.8	8.24	1.64	0.44	0.11357	0.33700	0.04425	-0.42591	0.31372	0.90535	0.61814
Copper (ug/l)	75	8.06933	6.42969	9.70897	5.9	605.2	2	35	4	10	33	6	50.78594	7.12643	0.82289	1.95060	0.27740	3.94105	0.54821
Iron (ug/l)	24	335.45833	196.16147	474.75520	200	8051	91	1400	160	380	1309	220	108821.99819	329.88179	67.33684	2.38124	0.47226	5.47736	0.91778
Zinc (ug/l)	75	15.97000	13.43220	18.50780	10	1197.75	2.25	60	10	20	57.75	10	121.66331	11.03011	1.27365	2.17922	0.27740	5.64519	0.54821

Station: EC-7

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	76	186.65789	179.57940	193.73639	190	14186	102	256	169.5	209.5	40	959.56140	30.97679	3.55328	-0.52322	0.27564	0.22402	0.54480	
Ammonia (mg/l as N)	78	0.10962	0.05517	0.16406	0.05	8.55	0.05	1.7	0.05	0.05	1.65	0	0.05832	0.24149	0.02734	5.83986	0.27221	34.74773	0.53818
BOD (mg/l)	36	1.50000	1.22111	1.77889	1.45	54	0.5	3.8	0.8	1.9	3.3	1.1	0.67943	0.82427	0.13738	0.82453	0.39254	0.83102	0.76808
COD (mg/l)	78	14.35769	13.28255	15.43283	13.1	1119.9	2.5	35.2	11	17	32.7	6	22.73910	4.76855	0.53993	1.52073	0.27221	4.81624	0.53818
Cyanide (mg/l)	77	0.00530	0.00501	0.00559	0.005	0.408	0.005	0.013	0.005	0.005	0.008	0	0.00000	0.00128	0.00015	4.61898	0.27391	21.87523	0.54146
Nitrate (mg/l as N)	78	1.54551	1.30960	1.78142	1.45	120.55	0.05	4.9	0.6	2.4	4.85	1.8	1.09482	1.04634	0.11847	0.61934	0.27221	-0.00849	0.53818
Total Phosphorus (mg/l as P)	78	0.05897	0.04554	0.07241	0.04	4.6	0.015	0.26	0.015	0.07	0.245	0.055	0.00355	0.05959	0.00675	2.02661	0.27221	3.89511	0.53818
Total Solids (mg/l)	77	382.15584	365.72990	398.58179	373	29426	183	710	344	408	527	64	5237.39645	72.36986	8.24731	1.47573	0.27391	5.79806	0.54146
Suspended Solids (mg/l)	77	18.15584	8.64643	27.66526	11	1398	2	368	6	18	366	12	1755.34381	41.89682	4.77459	7.88205	0.27391	66.14699	0.54146
Dissolved Solids (mg/l)	22	359.27273	331.43520	387.11025	343	7904	272	530	332	375	258	43	3942.01732	62.78549	13.38591	1.75177	0.49096	3.66928	0.95278
Sulfate (mg/l)	22	42.86364	32.99177	52.73551	38.5	943	29	140	34	44	111	10	495.74242	22.26527	4.74697	4.30711	0.49096	19.51315	0.95278
TKN (mg/l as N)	78	0.71538	0.63907	0.79170	0.6	55.8	0.4	2.6	0.5	0.8	2.2	0.3	0.11457	0.33848	0.03832	3.00297	0.27221	12.90549	0.53818
E. coli (CFU/100ml)	76	539.71053	258.01553	821.40552	130	41018	5	8000	10	395	7995	385	1519667.70175	1232.74803	141.40590	4.09337	0.27564	19.57209	0.54480
TOC (mg/l)	22	3.27273	2.95178	3.59367	3.15	72	2.3	4.9	2.6	3.6	2.6	1	0.52398	0.72387	0.15433	0.83534	0.49096	0.12835	0.95278
Hardness (mg/l)	76	249.50000	240.40776	258.59224	246	18962	142	332	223	282	190	59	1583.18667	39.78928	4.56414	-0.20761	0.27564	0.07571	0.54480
Chloride (mg/l)	22	51.63636	42.49488	60.77785	47	1136	29	130	44	52	101	8	425.09957	20.61794	4.39576	2.83513	0.49096	10.13399	0.95278
Dissolved Oxygen (mg/l)	61	10.40754	9.95012	10.86496	10.34	634.86	6	16.4	9.32	11.22	10.4	1.9	3.18990	1.78603	0.22868	0.35361	0.30627	1.31118	0.60384
pH	62	7.92435	7.84289	8.00582	7.96	491.31	6.98	8.6	7.8	8.13	1.62	0.33	0.10290	0.32079	0.04074	-0.83108	0.30390	1.28067	0.59929
Copper (ug/l)	24	2.62083	1.99180	3.24987	2	62.9	2	7.4	2	2	5.4	0	2.21911	1.48967	0.30408	2.32861	0.47226	4.54872	0.91778
Iron (ug/l)	24	487.50000	288.46399	686.53601	340	11700	120	2200	225	575	2080	350	222176.08696	471.35558	96.21506	2.65703	0.47226	7.71717	0.91778
Zinc (ug/l)	77	9.93571	8.11111	11.76032	10	765.05	2.25	50	5	10	47.75	5	64.62374	8.03889	0.91612	2.78243	0.27391	10.24815	0.54146

Station: EC-21

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	75	219.94667	210.08137	229.81197	225	16496	76	294	202	249	218	47	1838.51063	42.87786	4.95111	-0.85107	0.27740	0.95390	0.54821
Ammonia (mg/l as N)	76	0.07697	0.06235	0.09160	0.05	5.85	0.05	0.4	0.05	0.05	0.35	0	0.00410	0.06400	0.00734	2.96567	0.27564	9.78918	0.54480
BOD (mg/l)	37	1.30541	0.99902	1.61179	1.1	48.3	0.5	4.7	0.5	1.4	4.2	0.9	0.84441	0.91892	0.15107	1.97959	0.38759	4.82887	0.75872
COD (mg/l)	76	13.31053	11.91331	14.70774	12	1011.6	2.5	40	9.3	15.8	37.5	6.5	37.38682	6.11448	0.70138	2.00066	0.27564	6.35310	0.54480
Cyanide (mg/l)	74	0.00523	0.00504	0.00542	0.005	0.387	0.005	0.009	0.005	0.004	0.004	0	0.00000	0.00082	0.00010	3.83597	0.27920	14.07532	0.55168
Nitrate (mg/l as N)	76	3.73553	3.31603	4.15502	3.4	283.9	0.6	8	2.3	4.75	7.4	2.45	3.37005	1.83577	0.21058	0.69529	0.27564	-0.16363	0.54480
Total Phosphorus (mg/l as P)	76	0.09757	0.08092	0.11421	0.07	7.415	0.015	0.31	0.04	0.125	0.295	0.085	0.00530	0.07284	0.00835	1.30277	0.27564	1.02868	0.54480
Total Solids (mg/l)	76	467.48382	444.28177	490.68586	465	35528.77	4.77	713	411.5	524.5	708.23	113	10309.62377	101.53632	11.64701	-1.00969	0.27564	4.92947	0.54480
Suspended Solids (mg/l)	76	19.15789	13.76002	24.55577	11.5	1456	2	124	5	24	122	19	558.00140	23.62205	2.70964	2.65994	0.27564	8.36354	0.54480
Dissolved Solids (mg/l)	22	461.59091	425.18843	497.99339	445.5	10155	368	677	391	498	309	107	6740.91991	82.10311	17.50444	1.14168	0.49096	0.82672	0.95278
Sulfate (mg/l)	22	50.00000	45.71877	54.28123	48	1100	38	79	43	53	41	10	93.23810	9.65599	2.05866	1.40892	0.49096	2.71789	0.95278
TKN (mg/l as N)	22	0.48182	0.42771	0.53592	0.5	10.6	0.3	0.8	0.4	0.5	0.5	0.1	0.01489	0.12203	0.02602	0.72608	0.49096	1.21028	0.95278
E. coli (CFU/100ml)	73	2126.78082	-1416.06044	5669.62209	190	155255	5	130000	80	370	129995	290	230573632.20129	15184.65120	1777.22900	8.52626	0.28103	72.79260	0.55522
TOC (mg/l)	22	2.95000	2.62283	3.27717	2.65	64.9	1.8	4.3	2.5	3.7	2.5	1.2	0.54452	0.73792	0.15732	0.30935	0.49096	-1.02898	0.95278
Hardness (mg/l)	75	299.28000	287.44921	311.11079	308	22446	166	394	274	332	228	58	2644.06919	51.42051	5.93753	-0.73318	0.27740	0.20773	0.54821
Chloride (mg/l)	22	72.09091	53.90151	90.28031	61	1586	30	185	41	92	155	51	1683.03896	41.02486	8.74653	1.37868	0.49096	1.38238	0.95278
Dissolved Oxygen (mg/l)	61	10.21656	9.74078	10.69234	9.9	623.21	6.67	17.5	9	11.3	10.83	2.3	3.45110	1.85771	0.23786	0.90460	0.30627	2.58012	0.60384
pH	62	7.86806	7.78789	7.94824	7.87	487.82	6.94	8.5	7.74	8.08	1.56	0.34	0.09967	0.31570	0.04009	-0.68266	0.30390	0.80407	0.59929
Copper (ug/l)	32	3.18125	2.52187	3.84063	2	101.8	2	9	2	4.95	7	2.95	3.34480	1.82888	0.32330	1.43782	0.41446	1.63074	0.80937
Iron (ug/l)	23	395.13043	208.58757	581.67330	270	9088	98	2100	160	380	2002	220	186089.02767	431.38037	89.94903	3.17898	0.48134	11.45855	0.93476
Zinc (ug/l)	32	7.47500	5.52253	9.42747	6.7	239.2	2.25	20	2.25	10	17.75	7.75	29.32694	5.41543	0.95732	1.16485	0.41446	0.78206	0.80937

Station: EEL-1

	Valid N	Mean	-95.000%	+95.000%	Confid. Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	20	166.20000	151.77355	180.62645	156	3324	125	212	141	203.5	87	62.5	950.16842	30.82480	6.89264	0.38627	0.51210	-1.47570	0.99238
Ammonia (mg/l as N)	21	0.18810	0.01137	0.36482	0.05	3.95	0.05	1.8	0.05	0.1	1.75	0.05	0.15073	0.38823	0.08472	3.94857	0.50119	16.60755	0.97194
BOD (mg/l)	18	1.28889	0.88855	1.68923	1.1	23.2	0.5	3	0.5	2.1	2.5	1.6	0.64810	0.80505	0.18975	0.79896	0.53628	-0.48226	1.03780
COD (mg/l)	21	15.77143	13.19501	18.34785	14.5	331.2	6.9	31	12	19.2	24.1	7.2	32.03614	5.66005	1.23512	0.95807	0.50119	1.31952	0.97194
Cyanide (mg/l)	20	0.00535	0.00472	0.00598	0.005	0.107	0.005	0.011	0.005	0.006	0.006	0	0.00000	0.00135	0.00030	4.28952	0.51210	18.73335	0.99238
Nitrate (mg/l as N)	21	1.97143	1.19919	2.74367	1.6	41.4	0.1	7.5	0.7	2.7	7.4	2	2.87814	1.69651	0.37021	1.75293	0.50119	4.59415	0.97194
Total Phosphorus (mg/l as P)	21	0.18143	0.05566	0.30720	0.12	3.81	0.03	1.36	0.07	0.16	1.33	0.09	0.07634	0.27630	0.06029	4.24851	0.50119	18.87398	0.97194
Total Solids (mg/l)	20	355.00000	325.97476	384.02524	333.5	7100	274	500	321.5	387	226	65.5	3846.21053	62.01782	13.86761	1.21567	0.51210	1.30318	0.99238
Suspended Solids (mg/l)	20	55.30000	31.86034	78.73966	51	1106	2	210	24	59	208	35	2508.32632	50.08319	11.19894	1.84972	0.51210	4.07233	0.99238
Dissolved Solids (mg/l)	7	260.42857	224.25754	296.59961	243	1823	223	334	233	286	111	53	1529.61905	39.11034	14.78232	1.25762	0.79373	1.12324	1.58745
Sulfate (mg/l)	7	64.71429	-2.52379	131.95236	35	453	27	227	30	65	200	35	5285.57143	72.70194	27.47875	2.48562	0.79373	6.28892	1.58745
TKN (mg/l as N)	7	0.64286	0.45899	0.82672	0.7	4.5	0.3	0.9	0.5	0.8	0.6	0.3	0.03952	0.19881	0.07514	-0.65451	0.79373	0.34812	1.58745
E. coli (CFU/100ml)	20	428.00000	69.29271	786.70729	195	8560	10	3400	50	350	3390	300	587437.89474	766.44497	171.38231	3.42907	0.51210	12.92842	0.99238
TOC (mg/l)	7	3.20000	2.58885	3.81115	3.2	22.4	2.1	4.1	2.7	3.7	2	1	0.43667	0.66081	0.24976	-0.46577	0.79373	0.11499	1.58745
Hardness (mg/l)	20	223.95000	200.88997	247.01003	222	4479	122	300	181.5	269	178	87.5	2427.73421	49.27204	11.01756	-0.19681	0.51210	-0.83317	0.99238
Chloride (mg/l)	7	16.28571	13.74089	18.83054	15	114	13	21	15	19	8	4	7.57143	2.75162	1.04002	0.92844	0.79373	0.07825	1.58745
Dissolved Oxygen (mg/l)	17	10.05706	9.00688	11.10724	10.4	170.97	6.33	12.64	7.97	11.66	6.31	3.69	4.17200	2.04255	0.49539	-0.45983	0.54975	-1.11237	1.06320
pH	17	7.97765	7.86467	8.09062	8	135.62	7.6	8.35	7.87	8.04	0.75	0.17	0.04828	0.21973	0.05329	0.04444	0.54975	-0.57524	1.06320
Copper (ug/l)	9	4.72222	2.06954	7.37490	2	42.5	2	10	2	8	8	6	11.90944	3.45101	1.15034	0.64746	0.71714	-1.67556	1.39971
Iron (ug/l)	8	1876.25000	686.58029	3065.91971	1600	15010	230	4500	940	2600	4270	1660	2024969.64286	1423.01428	503.11152	1.06902	0.75210	0.39055	1.48088
Zinc (ug/l)	9	104.40556	-113.42481	322.23592	10	939.65	2.25	860	7.9	17	857.75	9.1	80308.07028	283.38679	94.46226	2.99841	0.71714	8.99294	1.39971

Station: ELL-7

	Valid N	Mean	-95.000%	+95.000%	Confid. Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	24	213.75000	191.08035	236.41965	211.5	5130	109	308	179	261	199	82	2882.19565	53.68608	10.95863	-0.10857	0.47226	-0.57561	0.91778
Ammonia (mg/l as N)	24	0.10208	0.05447	0.14969	0.05	2.45	0.05	0.5	0.05	0.1	0.45	0.05	0.01271	0.11275	0.02302	2.54949	0.47226	6.47208	0.91778
BOD (mg/l)	12	1.38333	0.86585	1.90081	1.4	16.6	0.5	2.9	0.5	1.85	2.4	1.35	0.66333	0.81445	0.23511	0.48036	0.63730	-0.65090	1.23225
COD (mg/l)	24	21.73750	18.35211	25.12289	22	521.7	9.2	40.8	14.45	27.3	31.6	12.85	64.27636	8.01725	1.63652	0.52538	0.47226	-0.15896	0.91778
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	24	3.78750	2.96245	4.61255	3.7	90.9	1.1	7.5	2.1	5	6.4	2.9	3.81766	1.95388	0.39883	0.61071	0.47226	-0.60868	0.91778
Total Phosphorus (mg/l as P)	24	0.14646	0.10726	0.18566	0.13	3.515	0.015	0.37	0.075	0.205	0.355	0.13	0.00862	0.09284	0.01895	0.76436	0.47226	0.34952	0.91778
Total Solids (mg/l)	24	448.95833	431.88999	466.02668	443	10775	388	561	421.5	468	173	46.5	1633.86775	40.42113	8.25093	0.73505	0.47226	1.19835	0.91778
Suspended Solids (mg/l)	24	34.16667	14.51771	53.81563	17	820	2	208	6	44.5	206	38.5	2165.27536	46.53252	9.49841	2.61013	0.47226	8.11217	0.91778
Dissolved Solids (mg/l)	1	80.00000				80	80	80											
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	23	809.34783	-38.06686	1656.76251	260	18615	5	9400	80	570	9395	490	3840214.32806	1959.64648	408.61454	4.18973	0.48134	18.64334	0.93476
TOC (mg/l)	0																		
Hardness (mg/l)	24	288.62500	259.42498	317.82502	305	6927	120	402	250	331	282	81	4781.89674	69.15126	14.11544	-0.93493	0.47226	0.73029	0.91778
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	24	11.47583	10.43574	12.51593	11.15	275.42	7.49	15.84	9.68	13.845	8.35	4.165	6.06711	2.46315	0.50279	0.14925	0.47226	-1.16574	0.91778
pH	24	8.16542	8.07819	8.25264	8.145	195.97	7.82	8.54	7.995	8.35	0.72	0.355	0.04267	0.20657	0.04217	0.24179	0.47226	-1.09499	0.91778
Copper (ug/l)	8	4.28750	2.10356	6.47144	3.6	34.3	2	8.3	2	6.4	6.3	4.4	6.82411	2.61230	0.92359	0.45463	0.75210	-1.69011	1.48088
Iron (ug/l)	8	1340.00000	172.86825	2507.13175	810	10720	110	4400	445	1850	4290	1405	1948971.42857	1396.05567	493.58021	1.77295	0.75210	3.37725	1.48088
Zinc (ug/l)	8	8.46875	0.46881	16.46869	5.7	67.75	2.25	31	2.25	9.3	28.75	7.05	91.56710	9.56907	3.38318	2.31981	0.75210	5.82769	1.48088

Station: ELL-41

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	74	231.01351	219.04474	242.98228	241.5	17095	115	325	187	272	210	85	2668.80803	51.66051	6.00541	-0.47353	0.27920	-0.79916	0.55168
Ammonia (mg/l as N)	74	0.12973	0.09091	0.16855	0.05	9.6	0.05	1.2	0.05	0.2	1.15	0.15	0.02808	0.16756	0.01948	4.17478	0.27920	22.87703	0.55168
BOD (mg/l)	35	2.09714	1.58036	2.61392	1.5	73.4	0.5	7	1.1	3.1	6.5	2	2.26323	1.50440	0.25429	1.33309	0.39769	2.10582	0.77779
COD (mg/l)	74	21.81757	19.49450	24.14064	19.1	1614.5	2.5	55	15.6	24.6	52.5	9	100.54092	10.02701	1.16562	1.31059	0.27920	1.71688	0.55168
Cyanide (mg/l)	71	0.00561	0.00510	0.00612	0.005	0.398	0.005	0.018	0.005	0.005	0.013	0	0.00000	0.00215	0.00026	4.63945	0.28480	22.74230	0.56251
Nitrate (mg/l as N)	74	2.62027	2.26454	2.97600	2.3	193.9	0.6	8.7	1.5	3.3	8.1	1.8	2.35753	1.53542	0.17849	1.49090	0.27920	3.11858	0.55168
Total Phosphorus (mg/l as P)	74	0.16703	0.13541	0.19865	0.12	12.36	0.04	0.67	0.09	0.19	0.63	0.1	0.01863	0.13648	0.01587	2.21581	0.27920	5.07762	0.55168
Total Solids (mg/l)	73	482.65753	460.70582	504.60925	484	35234	269	976	443	512	707	69	8852.03387	94.08525	11.01185	2.11591	0.28103	10.39932	0.55522
Suspended Solids (mg/l)	74	43.78378	28.90252	58.66505	22	3240	2	344	7	41	342	34	4125.70603	64.23166	7.46678	2.63384	0.27920	7.44438	0.55168
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	69	1616.73913	910.39664	2323.08162	440	111555	5	14000	140	1000	13995	860	8645493.98977	2940.32209	353.97318	2.73918	0.28874	7.42072	0.57010
TOC (mg/l)	0																		
Hardness (mg/l)	74	314.01351	299.20236	328.82466	325.5	23237	164	453	274	360	289	86	4086.91762	63.92900	7.43160	-0.52352	0.27920	-0.27206	0.55168
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	57	10.21456	9.72781	10.70132	9.94	582.23	6.79	14.17	8.64	11.41	7.38	2.77	3.36535	1.83449	0.24298	0.22674	0.31633	-0.80621	0.62313
pH	58	7.92328	7.84095	8.00560	8.025	459.55	7.01	8.5	7.73	8.14	1.49	0.41	0.09803	0.31310	0.04111	-0.71787	0.31372	0.16034	0.61814
Copper (ug/l)	9	6.06667	2.21546	9.91788	4.5	54.6	2	16	2	9.1	14	7.1	25.10250	5.01024	1.67008	1.09288	0.71714	0.32250	1.39971
Iron (ug/l)	8	2442.50000	-538.87550	5423.87550	770	19540	220	10000	390	3500	9780	3110	12717421.42857	3566.14938	1260.82421	1.80292	0.75210	2.45522	1.48088
Zinc (ug/l)	10	12.61000	2.03331	23.18669	5.65	126.1	2.25	43	2.25	26	40.75	23.75	218.60211	14.78520	4.67549	1.30473	0.68704	0.36086	1.33425

Station: ER-.3

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	75	221.25333	215.41065	227.09602	223	16594	171	318	202	241	147	39	644.86739	25.39424	2.93227	0.44074	0.27740	1.46031	0.54821
Ammonia (mg/l as N)	75	0.26467	-0.05197	0.58130	0.05	19.85	0.05	12	0.05	0.2	11.95	0.15	1.89390	1.37619	0.15891	8.60661	0.27740	74.36629	0.54821
BOD (mg/l)	35	1.93714	1.38758	2.48670	1.4	67.8	0.5	7.2	0.5	2.9	6.7	2.4	2.55946	1.59983	0.27042	1.61375	0.39769	2.69166	0.77779
COD (mg/l)	75	20.40267	18.61881	22.18652	18	1530.2	8	43	15	25.8	35	10.8	60.11270	7.75324	0.89527	0.93199	0.27740	0.48658	0.54821
Cyanide (mg/l)	54	0.00533	0.00505	0.00562	0.005	0.288	0.005	0.01	0.005	0.005	0.005	0	0.00000	0.00105	0.00014	3.28615	0.32456	10.31436	0.63889
Nitrate (mg/l as N)	75	2.25267	1.96249	2.54284	1.9	168.95	0.05	8.6	1.5	2.6	8.55	1.1	1.59060	1.26119	0.14563	2.51556	0.27740	9.41999	0.54821
Total Phosphorus (mg/l as P)	75	0.17120	0.03196	0.31044	0.07	12.84	0.03	5.3	0.06	0.13	5.27	0.07	0.36625	0.60519	0.06988	8.44745	0.27740	72.46976	0.54821
Total Solids (mg/l)	75	414.12000	404.49733	423.74267	420	31059	286	552	393	435	266	42	1749.18811	41.82330	4.82934	0.31289	0.27740	2.74218	0.54821
Suspended Solids (mg/l)	75	21.76000	14.29127	29.22873	12	1632	2	241	7	25	239	18	1053.75243	32.46155	3.74834	4.70889	0.27740	28.47415	0.54821
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	1	43.00000				43	43	43											
TKN (mg/l as N)	75	1.10080	0.73971	1.46189	0.8	82.56	0.3	14	0.66	1.1	13.7	0.44	2.46302	1.56940	0.18122	7.71392	0.27740	63.78051	0.54821
E. coli (CFU/100ml)	72	3206.04861	-1078.43444	7490.53166	280	230835.5	0.5	154800	70	915	154799.5	845	332432682.26873	18232.73655	2148.74861	8.32524	0.28290	70.11425	0.55883
TOC (mg/l)	0																		
Hardness (mg/l)	75	286.52000	278.32385	294.71615	292	21489	138	340	270	314	202	44	1269.00973	35.62316	4.11341	-1.36469	0.27740	3.00146	0.54821
Chloride (mg/l)	2	51.00000	-253.94891	355.94891	51	102	27	75			48		1152.00000	33.94113	24.00000				
Dissolved Oxygen (mg/l)	59	10.01407	9.56517	10.46297	10.1	590.83	7.2	13.41	8.36	11.36	6.21	3	2.96720	1.72256	0.22426	0.15569	0.31118	-0.97588	0.61326
pH	58	7.95190	7.87000	8.03379	7.99	461.21	6.93	8.5	7.83	8.11	1.57	0.28	0.09701	0.31146	0.04090	-1.11345	0.31372	2.17392	0.61814
Copper (ug/l)	10	4.50000	2.18198	6.81802	4	45	2	12	2	5	10	3	10.50000	3.24037	1.02470	1.64100	0.68704	2.53126	1.33425
Iron (ug/l)	0																		
Zinc (ug/l)	53	9.63019	7.81529	11.44509	10	510.4	2.25	40	5	10	37.75	5	43.35494	6.58445	0.90444	2.20819	0.32745	7.68477	0.64442

Station: EW-1

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std. Err.	Skewness	Kurtosis	Std. Err.
Alkalinity (mg/l)	75	171.84000	160.42682	183.25318	165	12888	53	359	139	207	306	68	2460.70378	49.60548	5.72795	0.61913	0.27740	1.79175	0.54821
Ammonia (mg/l as N)	75	0.06933	0.05724	0.08143	0.05	5.2	0.05	0.3	0.05	0.05	0.25	0	0.00276	0.05256	0.00607	3.17594	0.27740	10.00993	0.54821
BOD (mg/l)	34	1.77794	1.23889	2.31700	1.6	60.45	0.05	6.3	0.5	2.3	6.25	1.8	2.38685	1.54494	0.26496	1.54545	0.40305	2.30441	0.78790
COD (mg/l)	75	15.18400	13.63906	16.72894	13.3	1138.8	2.5	32.3	10.8	19	29.8	8.2	45.08893	6.71483	0.77536	0.82128	0.27740	0.29516	0.54821
Cyanide (mg/l)	73	0.00508	0.00497	0.00520	0.005	0.371	0.005	0.009	0.005	0.005	0.004	0	0.00000	0.00049	0.00006	7.34177	0.28103	57.39118	0.55522
Nitrate (mg/l as N)	75	1.90133	1.69502	2.10765	1.9	142.6	0.05	4.2	1.2	2.6	4.15	1.4	0.80412	0.89673	0.10355	0.09324	0.27740	-0.37275	0.54821
Total Phosphorus (mg/l as P)	75	0.10873	0.09220	0.12527	0.09	8.155	0.015	0.39	0.07	0.13	0.375	0.06	0.00516	0.07187	0.00830	1.92888	0.27740	4.67058	0.54821
Total Solids (mg/l)	75	362.13333	345.26356	379.00311	346	27160	217	556	311	407	339	96	5376.06306	73.32164	8.46645	0.63533	0.27740	-0.00657	0.54821
Suspended Solids (mg/l)	75	52.60000	39.85895	65.34105	46	3945	2	356	22	62	354	40	3066.59459	55.37684	6.39437	3.57505	0.27740	16.09071	0.54821
Dissolved Solids (mg/l)	22	265.54545	239.47226	291.61865	253	5842	202	430	218	280	228	62	3458.16450	58.80616	12.53752	1.35990	0.49096	1.61729	0.95278
Sulfate (mg/l)	24	41.20833	34.36776	48.04890	36.5	989	19	83	30	52	64	22	262.43297	16.19978	3.30677	0.99439	0.47226	0.46597	0.91778
TKN (mg/l as N)	24	0.59792	0.48070	0.71514	0.6	14.35	0.05	1.5	0.45	0.75	1.45	0.3	0.07706	0.27760	0.05666	1.10352	0.47226	4.11767	0.91778
E. coli (CFU/100ml)	71	413.59155	161.65497	665.52813	70	29365	5	6100	20	210	6095	190	1132922.27364	1064.38822	126.31964	4.09372	0.28480	17.83669	0.56251
TOC (mg/l)	22	3.10909	2.79322	3.42496	3.05	68.4	2	4.5	2.6	3.5	2.5	0.9	0.50753	0.71241	0.15189	0.50231	0.49096	-0.52901	0.95278
Hardness (mg/l)	75	226.40000	213.27470	239.52530	223	16980	112	352	192	269	240	77	3254.35135	57.04692	6.58721	0.02705	0.27740	-0.42972	0.54821
Chloride (mg/l)	24	16.91667	14.25501	19.57833	17	406	9	34	12	19.5	25	7.5	39.73188	6.30332	1.28666	1.20194	0.47226	1.28953	0.91778
Dissolved Oxygen (mg/l)	57	10.08404	9.64553	10.52254	9.94	574.79	5.7	13.7	9.09	11.17	8	2.08	2.73124	1.65265	0.21890	-0.12386	0.31633	0.01203	0.62313
pH	58	8.00172	7.90661	8.09684	8.01	464.1	6.88	8.54	7.82	8.29	1.66	0.47	0.13086	0.36175	0.04750	-1.26881	0.31372	1.88245	0.61814
Copper (ug/l)	25	2.86400	2.26099	3.46701	2	71.6	2	6.5	2	4.1	4.5	2.1	2.13407	1.46084	0.29217	1.28573	0.46368	0.08042	0.90172
Iron (ug/l)	24	1614.58333	939.42864	2289.73803	1350	38750	160	8100	735	1900	7940	1165	2556469.38406	1598.89630	326.37334	3.12180	0.47226	12.10020	0.91778
Zinc (ug/l)	25	9.84000	7.11929	12.56071	7.8	246	2.25	34	6.8	12	31.75	5.2	43.44396	6.59120	1.31824	2.25931	0.46368	6.85224	0.90172

Station: EW-79

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std. Err.	Skewness	Kurtosis	Std. Err.
Alkalinity (mg/l)	80	171.70000	161.69928	181.70072	166	13736	67	297	148	197	230	49	2019.52911	44.93917	5.02435	0.28223	0.26891	0.55722	0.53179
Ammonia (mg/l as N)	80	0.13250	0.02618	0.23882	0.05	10.6	0.05	4.3	0.05	0.1	4.25	0.05	0.22823	0.47774	0.05341	8.62331	0.26891	75.97642	0.53179
BOD (mg/l)	38	1.67368	1.18313	2.16424	1.3	63.6	0.5	6.6	0.5	2	6.1	1.5	2.22740	1.49245	0.24211	1.85826	0.38282	3.55184	0.74970
COD (mg/l)	80	14.85625	12.89720	16.81530	13.4	1188.5	2.5	76.6	11	17.75	74.1	6.75	77.49566	8.80316	0.98422	4.49224	0.26891	30.45328	0.53179
Cyanide (mg/l)	18	0.00511	0.00488	0.00535	0.005	0.092	0.005	0.007	0.005	0.005	0.002	0	0.00000	0.00047	0.00011	4.24264	0.53628	18.00000	1.03780
Nitrate (mg/l as N)	80	1.94063	1.67438	2.20687	1.95	155.25	0.05	9.6	1.2	2.4	9.55	1.2	1.43140	1.19641	0.13376	3.35976	0.26891	20.47544	0.53179
Total Phosphorus (mg/l as P)	80	0.13531	0.05324	0.21738	0.08	10.825	0.015	3.37	0.06	0.115	3.355	0.055	0.13601	0.36879	0.04123	8.75608	0.26891	77.71301	0.53179
Total Solids (mg/l)	80	332.63750	313.49693	351.77807	318.5	26611	214	918	282	356	704	74	7397.70237	86.00990	9.61620	4.20228	0.26891	26.86536	0.53179
Suspended Solids (mg/l)	80	32.32500	25.82884	38.82116	22.5	2586	2	165	13.5	39.5	163	26	852.12089	29.19111	3.26367	2.25684	0.26891	6.41455	0.53179
Dissolved Solids (mg/l)	21	266.80952	241.85232	291.76673	257	5603	200	422	236	288	222	52	3006.06190	54.82757	11.96436	1.30691	0.50119	2.06204	0.97194
Sulfate (mg/l)	22	37.50000	24.93205	50.06795	31.5	825	16	160	28	36	144	8	803.50000	28.34608	6.04340	4.17755	0.49096	18.67304	0.95278
TKN (mg/l as N)	80	0.78000	0.57689	0.98311	0.6	62.4	0.2	8	0.5	0.8	7.8	0.3	0.83301	0.91270	0.10204	6.73077	0.26891	51.32922	0.53179
E. coli (CFU/100ml)	77	284.02597	148.43379	419.61816	100	21870	5	4400	40	250	4395	210	356881.60458	597.39569	68.07956	4.97390	0.27391	30.37554	0.54146
TOC (mg/l)	21	3.01905	2.68622	3.35188	2.9	63.4	1.5	5.1	2.7	3.3	3.6	0.6	0.53462	0.73118	0.15956	0.72085	0.50119	2.88175	0.97194
Hardness (mg/l)	80	214.71250	203.09968	226.32532	215.5	17177	94	316	182.5	254	222	71.5	2723.09351	52.18327	5.83427	-0.16708	0.26891	-0.45722	0.53179
Chloride (mg/l)	22	25.68182	12.45652	38.90712	18.5	565	10	155	14	26	145	12	889.75108	29.82870	6.35950	4.22866	0.49096	18.94201	0.95278
Dissolved Oxygen (mg/l)	61	10.10770	9.59016	10.62525	10.25	616.57	4.9	13.84	8.4	11.86	8.94	3.46	4.08358	2.02079	0.25874	-0.36098	0.30627	-0.26544	0.60384
pH	62	7.90081	7.81150	7.99011	7.965	489.85	6.9	8.7	7.71	8.1	1.8	0.39	0.12367	0.35167	0.04466	-0.76263	0.30390	0.90361	0.59929
Copper (ug/l)	77	2.96364	2.51444	3.41284	2	228.2	2	16	2	4	14	2	3.91682	1.97910	0.22554	4.12380	0.27391	24.26608	0.54146
Iron (ug/l)	77	1058.42857	846.05211	1270.80503	710	81499	89	5000	510	1300	4911	790	875523.03759	935.69388	106.63221	1.93996	0.27391	4.19521	0.54146
Zinc (ug/l)	78	10.47821	8.60597	12.35044	10	817.3	2.25	50	5	10	47.75	5	68.95439	8.30388	0.94023	2.87387	0.27221	9.41245	0.53818

Station: EW-94

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Err.	
Alkalinity (mg/l)	75	190.54667	180.62249	200.47084	196	14291	73	274	165	229	201	64	1860.52144	43.13376	4.98066	-0.56090	0.27740	-0.21333	0.54821
Ammonia (mg/l as N)	75	0.12933	0.02347	0.23519	0.05	9.7	0.05	4	0.05	0.05	3.95	0	0.21170	0.46010	0.05313	8.27821	0.27740	70.29380	0.54821
BOD (mg/l)	36	1.66944	1.13167	2.20722	1.1	60.1	0.5	6.2	0.5	2.15	5.7	1.65	2.52618	1.58940	0.26490	1.54140	0.39254	1.61831	0.76808
COD (mg/l)	75	14.55867	12.76011	16.35723	13.5	1091.9	2.5	56.9	9.4	18	54.4	8.6	61.10759	7.81713	0.90264	2.43945	0.27740	10.94440	0.54821
Cyanide (mg/l)	2	2.50250	-29.23125	34.23625	2.5025	5.005	0.005	5			4.995		12.47501	3.53200	2.49750				
Nitrate (mg/l as N)	75	2.24400	1.98787	2.50013	2.2	168.3	0.4	7.7	1.4	2.8	7.3	1.4	1.23925	1.11322	0.12854	1.53138	0.27740	6.40919	0.54821
Total Phosphorus (mg/l as P)	75	0.15300	0.06001	0.24599	0.08	11.475	0.015	3.55	0.07	0.13	3.535	0.06	0.16333	0.40415	0.04667	8.24720	0.27740	70.03457	0.54821
Total Solids (mg/l)	74	366.02703	345.25886	386.79519	363.5	27086	164	902	325	392	738	67	8035.53351	89.64114	10.42057	3.07738	0.27920	17.78419	0.55168
Suspended Solids (mg/l)	75	45.96000	35.03182	56.88818	32	3447	2	272	17	56	270	39	2256.01189	47.49749	5.48454	2.74570	0.27740	9.53228	0.54821
Dissolved Solids (mg/l)	72	303.20833	289.76904	316.64763	314.5	21831	93	417	266.5	349	324	82.5	3270.84331	57.19129	6.74006	-0.89498	0.28290	1.48728	0.55883
Sulfate (mg/l)	75	41.84000	35.56245	48.11755	38	3138	15	219	33	43	204	10	744.43351	27.28431	3.15052	5.36468	0.27740	31.27856	0.54821
TKN (mg/l as N)	22	0.96364	0.44143	1.48584	0.8	21.2	0.3	6.1	0.5	1	5.8	0.5	1.38719	1.17779	0.25111	4.29730	0.49096	19.48257	0.95278
E. coli (CFU/100ml)	71	464.71831	167.48312	761.95350	70	32995	5	7500	20	220	7495	200	1576950.63380	1255.76695	149.03212	4.56794	0.28480	22.45746	0.56251
TOC (mg/l)	21	3.69048	2.68061	4.70034	3	77.5	1.5	12.4	2.6	4.1	10.9	1.5	4.92190	2.21854	0.48412	3.26010	0.50119	12.67814	0.97194
Hardness (mg/l)	75	235.86667	223.05560	248.67773	249	17690	94	320	194	282	226	88	3100.38739	55.68112	6.42950	-0.67327	0.27740	-0.45335	0.54821
Chloride (mg/l)	23	28.30435	16.87111	39.73758	23	651	10	145	17	29	135	12	699.03953	26.43936	5.51299	4.23157	0.48134	19.25046	0.93476
Dissolved Oxygen (mg/l)	61	9.86393	9.42206	10.30581	10.02	601.7	5.6	12.91	8.72	11.2	7.31	2.48	2.97669	1.72531	0.22090	-0.29999	0.30627	-0.41152	0.60384
pH	62	7.94887	7.85786	8.03988	7.985	492.83	6.79	8.8	7.76	8.19	2.01	0.43	0.12844	0.35839	0.04552	-0.75053	0.30390	1.37897	0.59929
Copper (ug/l)	24	4.20417	2.15571	6.25262	2	100.9	2	25	2	5	23	3	23.53346	4.85113	0.99023	3.72172	0.47226	15.71756	0.91778
Iron (ug/l)	23	1422.60870	840.97324	2004.24415	720	32720	120	4900	440	2500	4780	2060	1809111.06719	1345.03199	280.45856	1.16833	0.48134	0.38064	0.93476
Zinc (ug/l)	24	9.40417	5.91350	12.89484	7.75	225.7	2.25	40	3.575	12	37.75	8.425	68.33629	8.26658	1.68741	2.37567	0.47226	7.60059	0.91778

Station: EW-168

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Err.	
Alkalinity (mg/l)	79	225.64557	215.81801	235.47313	234	17826	100	330	211	254	230	43	1925.05226	43.87542	4.93637	-1.16256	0.27054	1.54453	0.53495
Ammonia (mg/l as N)	79	0.06456	0.05471	0.07440	0.05	5.1	0.05	0.3	0.05	0.05	0.25	0	0.00193	0.04396	0.00495	3.56764	0.27054	13.30550	0.53495
BOD (mg/l)	39	1.28205	0.90075	1.66335	1	50	0.5	6.9	0.5	1.6	6.4	1.1	1.38362	1.17627	0.18835	3.19172	0.37822	13.41646	0.74100
COD (mg/l)	79	11.71646	10.34418	13.08873	10.2	925.6	2.5	35	8	14	32.5	6	37.53473	6.12656	0.68929	1.21419	0.27054	1.86555	0.53495
Cyanide (mg/l)	78	0.00501	0.00499	0.00504	0.005	0.391	0.005	0.006	0.005	0.001	0	0.00000	0.00011	0.00001	8.83176	0.27221	78.00000	0.53818	
Nitrate (mg/l as N)	79	3.02532	2.76856	3.28207	3	239	1.2	5.9	2	3.9	4.7	1.9	1.31397	1.14628	0.12897	0.33576	0.27054	-0.74397	0.53495
Total Phosphorus (mg/l as P)	79	0.10538	0.08848	0.12228	0.08	8.325	0.015	0.52	0.06	0.12	0.505	0.06	0.00569	0.07543	0.00849	2.94132	0.27054	11.94811	0.53495
Total Solids (mg/l)	79	415.12658	407.59590	422.65727	411	32795	339	559	396	432	220	36	1130.36839	33.62095	3.78265	0.97087	0.27054	3.63926	0.53495
Suspended Solids (mg/l)	79	35.89873	24.32190	47.47556	22	2836	2	392	12	39	390	27	2671.34859	51.68509	5.81503	4.73935	0.27054	29.19352	0.53495
Dissolved Solids (mg/l)	77	369.01299	359.04207	378.98390	372	28414	200	470	345	398	270	53	1929.85509	43.93012	5.00630	-0.90207	0.27391	2.47651	0.54146
Sulfate (mg/l)	78	41.55128	39.70464	43.39792	41.5	3241	19	56	38	47	37	9	67.08175	8.19035	0.92737	-0.62019	0.27221	0.29756	0.53818
TKN (mg/l as N)	21	0.58095	0.43873	0.72317	0.4	12.2	0.2	1.3	0.4	0.8	1.1	0.4	0.09762	0.31244	0.06818	1.01051	0.50119	0.12476	0.97194
E. coli (CFU/100ml)	75	598.66667	350.05141	847.28193	180	44900	5	5400	50	540	5395	490	1167619.14414	1080.56427	124.77281	2.87328	0.27740	8.37216	0.54821
TOC (mg/l)	21	2.47619	2.04246	2.90992	2.3	52	1.3	5.1	1.9	2.8	3.8	0.9	0.90790	0.95284	0.20793	1.32748	0.50119	1.66901	0.97194
Hardness (mg/l)	79	285.39241	273.68915	297.09566	300	22546	130	357	271	316	227	45	2730.01071	52.24950	5.87853	-1.42304	0.27054	1.61023	0.53495
Chloride (mg/l)	22	28.36364	24.97165	31.75562	28.5	624	16	43	21	33	27	12	58.52814	7.65037	1.63106	0.18157	0.49096	-0.90087	0.95278
Dissolved Oxygen (mg/l)	62	10.00323	9.56730	10.43916	9.815	620.2	7.14	13.73	8.57	11.01	6.59	2.44	2.94666	1.71658	0.21801	0.33752	0.30390	-0.63392	0.59929
pH	63	7.96333	7.86217	8.06450	8	501.69	6.64	9.72	7.74	8.16	3.08	0.42	0.16136	0.40169	0.05061	0.39483	0.30159	6.77394	0.59484
Copper (ug/l)	34	3.01471	2.45458	3.57483	2	102.5	2	7	2	4	5	2	2.57705	1.60532	0.27531	1.27133	0.40305	0.27374	0.78790
Iron (ug/l)	24	1141.87500	583.88777	1699.86223	430	27405	85	4900	310	1850	4815	1540	1746153.94022	1321.42118	269.73397	1.58094	0.47226	1.65831	0.91778
Zinc (ug/l)	34	8.45294	6.73778	10.16810	7.85	287.4	2.25	20	5	10	17.75	5	24.16393	4.91568	0.84303	0.75333	0.40305	0.16501	0.78790

Station: EW-239

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	82	231.59756	222.87416	240.32096	242.5	18991	92	300	215	260	208	45	1576.21876	39.70162	4.38431	-1.34876	0.26572	2.08947	0.52562
Ammonia (mg/l as N)	82	0.06280	0.05322	0.07239	0.05	5.15	0.05	0.3	0.05	0.05	0.25	0	0.00190	0.04361	0.00482	4.50597	0.26572	21.51921	0.52562
BOD (mg/l)	41	1.19268	0.85958	1.52578	1	48.9	0.5	6.2	0.5	1.6	5.7	1.1	1.11370	1.05532	0.16481	2.94876	0.36950	12.05526	0.72448
COD (mg/l)	82	11.29878	9.54824	13.04932	9.1	926.5	2.5	56.9	7	13.9	54.4	6.9	63.47321	7.96701	0.87981	3.06445	0.26572	14.19537	0.52562
Cyanide (mg/l)	81	0.00510	0.00498	0.00521	0.005	0.413	0.005	0.008	0.005	0.005	0.003	0	0.00000	0.00051	0.00006	5.22353	0.26730	26.55153	0.52867
Nitrate (mg/l as N)	82	3.11220	2.87408	3.35031	3	255.2	1.2	5.5	2.2	3.8	4.3	1.6	1.17442	1.08371	0.11968	0.38076	0.26572	-0.76055	0.52562
Total Phosphorus (mg/l as P)	82	0.09085	0.07562	0.10608	0.08	7.45	0.015	0.51	0.05	0.1	0.495	0.05	0.00480	0.06931	0.00765	3.24708	0.26572	16.17235	0.52562
Total Solids (mg/l)	82	416.14634	408.63870	423.65398	412	34124	349	579	394	439	230	45	1167.48449	34.16847	3.77328	1.35661	0.26572	5.36680	0.52562
Suspended Solids (mg/l)	82	31.24390	19.93747	42.55034	16	2562	2	392	8	29	390	21	2647.86570	51.45742	5.68252	4.78832	0.26572	30.07486	0.52562
Dissolved Solids (mg/l)	21	366.61905	347.14892	386.08918	379	7699	275	429	339	398	154	59	1829.54762	42.77321	9.33388	-0.66854	0.50119	-0.38866	0.97194
Sulfate (mg/l)	21	38.14286	34.01767	42.26805	40	801	22	54	30	42	32	12	82.12857	9.06248	1.97760	-0.02042	0.50119	-0.42602	0.97194
TKN (mg/l as N)	20	0.46500	0.34232	0.58768	0.4	9.3	0.2	1.1	0.3	0.55	0.9	0.25	0.06871	0.26213	0.05861	1.32128	0.51210	0.87743	0.99238
E. coli (CFU/100ml)	78	434.10256	255.23400	612.97113	105	33860	5	5000	30	420	4995	390	629374.50882	793.33127	89.82708	3.32713	0.50119	1.84219	0.53818
TOC (mg/l)	21	2.15714	1.84257	2.47171	1.8	45.3	1.2	4.1	1.7	2.4	2.9	0.7	0.47757	0.69107	0.15080	1.35376	0.50119	0.7194	
Hardness (mg/l)	82	288.47561	276.96647	299.98475	305.5	23655	124	361	268	322	237	54	2743.65989	52.37996	5.78440	-1.27600	0.26572	1.16133	0.52562
Chloride (mg/l)	21	28.00000	24.73019	31.26981	28	588	17	41	22	32	24	10	51.60000	7.18331	1.56753	0.32294	0.50119	-0.70540	0.97194
Dissolved Oxygen (mg/l)	64	9.92500	9.51032	10.33968	9.85	635.2	7	13.6	8.42	10.995	6.6	2.575	2.75590	1.66009	0.20751	0.33330	0.29933	-0.54095	0.59049
pH	65	8.00385	7.90472	8.10297	8.04	520.25	6.9	10.04	7.83	8.18	3.14	0.35	0.16002	0.40003	0.04962	1.43103	0.29712	10.49962	0.58624
Copper (ug/l)	24	2.60833	2.00587	3.21079	2	62.6	2	6.9	2	2	4.9	0	2.03558	1.42674	0.29123	2.14688	0.47226	3.36186	0.91778
Iron (ug/l)	23	792.47826	402.54609	1182.41043	430	18227	69	3400	220	1000	3331	780	813095.62451	901.71815	188.02123	1.71717	0.48134	2.23757	0.93476
Zinc (ug/l)	24	6.53125	4.89265	8.16985	5.95	156.75	2.25	17	2.25	8.6	14.75	6.35	15.05844	3.88052	0.79211	0.92827	0.47226	1.02424	0.91778

Station: FC-6

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	73	209.43836	203.03275	215.84397	208	15289	120	286	192	231	166	39	753.74962	27.45450	3.21331	-0.11826	0.28103	0.77643	0.55522
Ammonia (mg/l as N)	74	0.10068	0.07259	0.12876	0.05	7.45	0.05	0.9	0.05	0.1	0.85	0.05	0.01469	0.12121	0.01409	4.54388	0.27920	26.29901	0.55168
BOD (mg/l)	34	2.30000	1.88386	2.71614	2.1	78.2	0.5	5.1	1.5	2.9	4.6	1.4	1.42242	1.19265	0.20454	0.51858	0.40305	-0.35524	0.78790
COD (mg/l)	74	18.16622	16.32564	20.00679	16.15	1344.3	2.5	69	14	21	66.5	7	63.11377	7.94442	0.92352	3.77031	0.27920	22.66515	0.55168
Cyanide (mg/l)	74	0.00541	0.00506	0.00575	0.005	0.4	0.005	0.014	0.005	0.005	0.009	0	0.00000	0.00151	0.00018	4.25729	0.27920	18.76676	0.55168
Nitrate (mg/l as N)	74	1.97703	1.72011	2.23395	2	146.3	0.2	5	1	2.7	4.8	1.7	1.22974	1.10894	0.12891	0.42305	0.27920	-0.21463	0.55168
Total Phosphorus (mg/l as P)	74	0.15500	0.13186	0.17814	0.12	11.47	0.015	0.46	0.08	0.21	0.445	0.13	0.00998	0.09989	0.01161	1.08722	0.27920	0.62229	0.55168
Total Solids (mg/l)	73	446.39726	405.85424	486.94028	418	32587	298	1790	379	464	1492	85	30195.24277	173.76778	20.33798	6.61995	0.28103	50.95880	0.55522
Suspended Solids (mg/l)	73	33.84932	22.47919	45.21944	22	2471	2	354	14	35	352	21	2374.85198	48.73245	5.70370	4.87049	0.28103	27.85032	0.55522
Dissolved Solids (mg/l)	22	400.81818	372.41031	429.22605	392.5	8818	308	531	347	430	223	83	4105.20346	64.07186	13.66017	0.68946	0.49096	-0.38432	0.95278
Sulfate (mg/l)	22	52.81818	45.99781	59.63855	50	1162	27	79	44	66	52	22	236.63203	15.38285	3.27963	0.18245	0.49096	-0.93987	0.95278
TKN (mg/l as N)	74	0.96622	0.87424	1.05819	0.8	71.5	0.5	2.9	0.7	1.1	2.4	0.4	0.15761	0.39700	0.04615	2.40534	0.27920	8.45084	0.55168
E. coli (CFU/100ml)	70	3155.28571	-267.00133	6577.57276	205	220870	5	90000	50	720	89995	670	20600782.52588	14352.72735	1715.47904	5.68129	0.28675	31.74050	0.56627
TOC (mg/l)	22	3.69545	3.33774	4.05317	3.55	81.3	2.7	6.6	3.4	3.9	3.9	0.5	0.65093	0.80680	0.17201	2.35302	0.49096	7.74740	0.95278
Hardness (mg/l)	74	273.95946	264.22088	283.69803	279.5	20273	122	340	250	304	218	54	1766.88874	42.03438	4.88640	-0.99896	0.27920	1.72010	0.55168
Chloride (mg/l)	22	48.63636	41.36827	55.90445	46.5	1070	22	83	38	60	61	22	268.71861	16.39264	3.49492	0.38648	0.49096	-0.60174	0.95278
Dissolved Oxygen (mg/l)	59	10.04153	9.59367	10.48938	9.96	592.45	7.07	14.28	8.79	11.23	7.21	2.44	2.95334	1.71853	0.22373	0.35518	0.31118	-0.48018	0.61326
pH	60	7.88583	7.79377	7.99790	7.945	473.15	6.91	8.65	7.795	8.1	1.74	0.305	0.12701	0.35639	0.04601	-0.90723	0.30869	0.92868	0.60849
Copper (ug/l)	35	7.81143	-1.89817	17.52102	2	273.4	2	170	2	4.4	168	2.4	798.94751	28.26566	4.77777	5.88678	0.39769	34.76014	0.77779
Iron (ug/l)	24	765.41667	513.17520	1017.65813	495	18370	220	2100	330	1150	1880	820	356834.60145	597.35634	121.93485	1.14852	0.47226	-0.02650	0.91778
Zinc (ug/l)	75	13.07267	10.37592	15.76941	10	980.45	2.25	80	8.3	11	77.75	2.7	137.38056	11.72095	1.35342	3.60427	0.27740	15.89606	0.54821

Station: FC-7

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Err.	
Alkalinity (mg/l)	100	191.76000	186.50532	197.01468	191.5	19176	110	250	180	210	140	30	701.31556	26.48236	2.64824	-0.62685	0.24138	1.38166	0.47833
Ammonia (mg/l as N)	101	0.07129	0.05941	0.08316	0.05	7.2	0.05	0.4	0.05	0.05	0.35	0	0.00362	0.06014	0.00598	3.62480	0.24022	13.73216	0.47606
BOD (mg/l)	49	2.12857	1.78195	2.47519	1.8	104.3	0.5	5.1	1.3	2.6	4.6	1.3	1.45625	1.20675	0.17239	0.93962	0.33983	0.30680	0.66806
COD (mg/l)	101	16.11980	15.03961	17.19999	15	1628.1	2.5	40	12	19	37.5	7	29.94000	5.47175	0.54446	0.95605	0.24022	2.58231	0.47606
Cyanide (mg/l)	100	0.00507	0.00493	0.00521	0.005	0.507	0.005	0.012	0.005	0.005	0.007	0	0.00000	0.00070	0.00007	10.00000	0.24138	100.00000	0.47833
Nitrate (mg/l as N)	101	1.41683	1.19348	1.64018	1.3	143.1	0.05	4.5	0.2	2.5	4.45	2.3	1.28001	1.13138	0.11258	0.40022	0.24022	-0.79243	0.47606
Total Phosphorus (mg/l as P)	101	0.06470	0.05866	0.07074	0.06	6.535	0.015	0.14	0.04	0.09	0.125	0.05	0.00094	0.03059	0.00304	0.40224	0.24022	-0.31756	0.47606
Total Solids (mg/l)	100	359.06000	352.19957	365.92043	351.5	35906	279	467	333.5	387	188	53.5	1195.43071	34.57500	3.45750	0.56474	0.24138	0.58045	0.47833
Suspended Solids (mg/l)	100	17.80000	15.25271	20.34729	17	1780	2	77	9	22	75	13	164.80808	12.83776	1.28378	1.90704	0.24138	5.29425	0.47833
Dissolved Solids (mg/l)	97	322.47423	316.04040	328.90441	320	31280	259	400	298	343	141	45	1017.89777	31.90451	3.23941	0.25711	0.24498	-0.55879	0.48533
Sulfate (mg/l)	100	41.21000	39.77828	42.63172	40	4121	25	60	37	43.5	35	6.5	51.33929	7.16514	0.71651	0.72924	0.24138	0.99156	0.47833
TKN (mg/l as N)	22	0.66818	0.59790	0.73847	0.7	14.7	0.4	1	0.6	0.8	0.6	0.2	0.02513	0.15852	0.03380	0.18517	0.49096	-0.30225	0.95278
E. coli (CFU/100ml)	96	349.89583	224.66002	475.13165	140	33590	5	3900	30	330	3895	300	382029.98904	618.08575	63.08311	3.40067	0.24621	13.57593	0.48773
TOC (mg/l)	21	3.56190	3.28710	3.83671	3.6	74.8	2.3	4.6	3.1	4	2.3	0.9	0.36448	0.60372	0.13174	-0.28675	0.50119	-0.58066	0.97194
Hardness (mg/l)	100	248.89000	241.73981	256.04019	250	24889	142	314	225	276	172	51	1298.54333	36.03531	3.60353	-0.37659	0.24138	0.23890	0.47833
Chloride (mg/l)	25	33.80000	31.47410	36.12590	35	845	20	43	29	36	23	7	31.75000	5.63471	1.12694	-0.43684	0.46368	0.19912	0.90172
Dissolved Oxygen (mg/l)	59	9.93102	9.49423	10.36780	9.79	585.93	6.57	15.2	8.83	11.05	8.63	2.22	2.80922	1.67607	0.21821	0.48225	0.31118	0.49739	0.61326
pH	60	7.98300	7.90086	8.06514	8.01	478.98	6.96	8.58	7.82	8.21	1.62	0.39	0.10111	0.31797	0.04105	-1.05580	0.30869	1.72275	0.60849
Copper (ug/l)	35	2.82571	2.33605	3.31538	2	98.9	2	7.4	2	4.1	5.4	2.1	2.03197	1.42547	0.24095	1.57843	0.39769	1.75988	0.77779
Iron (ug/l)	34	461.47059	335.78979	587.15138	325	15690	150	1700	240	530	1550	290	129746.25668	360.20308	61.77432	2.05340	0.40305	4.30766	0.78790
Zinc (ug/l)	38	7.36053	5.25839	9.46266	5.05	279.7	2.25	26	2.25	10	23.75	7.75	40.90191	6.39546	1.03748	1.25461	0.38282	0.74410	0.74970

Station: GCR-34

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Err.	
Alkalinity (mg/l)	74	178.98649	167.09538	190.87760	182	13245	65	318	135	214	253	79	2634.28749	51.32531	5.96645	0.13930	0.27920	0.00584	0.55168
Ammonia (mg/l as N)	75	2.82067	1.80607	3.83526	0.6	211.55	0.05	25	0.3	4.2	24.95	3.9	19.44595	4.40976	0.50919	2.55284	0.27740	8.27329	0.54821
BOD (mg/l)	35	6.47714	3.79427	9.16002	2.6	226.7	0.5	32	1.5	8	31.5	6.5	60.99829	7.81014	1.32015	1.76950	0.39769	2.53754	0.77779
COD (mg/l)	75	47.31867	35.78202	58.85531	35.3	3548.9	12	390	26.3	52.4	378	26.1	2514.22965	50.14209	5.78991	5.18968	0.27740	31.82434	0.54821
Cyanide (mg/l)	74	0.01508	0.01017	0.01999	0.009	1.116	0.005	0.17	0.005	0.016	0.165	0.011	0.00045	0.02121	0.00247	5.64677	0.27920	39.52355	0.55168
Nitrate (mg/l as N)	75	6.42200	5.03154	7.81246	4.1	481.65	0.05	24	1.5	10	23.95	8.5	36.52272	6.04340	0.69783	1.05341	0.27740	0.20516	0.54821
Total Phosphorus (mg/l as P)	75	0.54160	0.43386	0.64934	0.43	40.62	0.04	2.2	0.22	0.7	2.16	0.48	0.21928	0.46827	0.05407	1.96604	0.27740	4.39250	0.54821
Total Solids (mg/l)	73	925.28767	863.10638	987.46897	934	67546	327	1538	786	1080	1211	294	71027.37443	266.50961	31.19259	-0.16579	0.28103	0.39434	0.55522
Suspended Solids (mg/l)	74	25.94595	17.29600	34.59589	16.5	1920	2	223	7	28	221	21	1393.94224	37.33554	4.34017	3.82903	0.27920	16.29892	0.55168
Dissolved Solids (mg/l)	0					56	56	56											
Sulfate (mg/l)	1	56.00000				56	56	56											
TKN (mg/l as N)	75	5.04000	3.72478	6.35522	2.1	378	0.6	28	1.4	6.8	27.4	5.4	32.67703	5.71638	0.66007	2.06801	0.27740	4.88066	0.54821
E. coli (CFU/100ml)	70	74944.72857	17828.68720	132060.76994	1450	5246131	5	1204000	280	11000	1203995	10720	57378897860.37450	239538.92765	28630.37794	3.96840	0.28675	15.33332	0.56627
TOC (mg/l)	0																		
Hardness (mg/l)	74	392.95946	363.28628	422.63264	397	29079	128	728	286	464	600	178	16403.87505	128.07761	14.88872	0.38889	0.27920	0.32148	0.55168
Chloride (mg/l)	74	195.22973	178.21937	212.24009	212.5	14447	34	415	150	235	381	85	5390.69993	73.42139	8.53506	-0.24597	0.27920	0.54092	0.55168
Dissolved Oxygen (mg/l)	58	7.07414	6.55576	7.59252	7.28	410.3	1.4	11.61	5.63	8.38	10.21	2.75	3.88680	1.97150	0.25887	-0.21584	0.31372	0.36608	0.61814
pH	58	7.56655	7.44382	7.68928	7.495	438.86	6.55	8.47	7.19	7.88	1.92	0.69	0.21787	0.46676	0.06129	0.34248	0.31372	-0.62794	0.61814
Copper (ug/l)	16	19.56250	13.25168	25.87332	18.5	313	5	42	8	27	37	19	140.26250	11.84325	2.96081	0.63523	0.56431	-0.65737	0.109077
Iron (ug/l)	79	990.00000	792.34718	1187.65282	730	78210	200	6800	480	1200	6600	720	778676.92308	882.42672	99.28076	3.97906	0.27054	23.55514	0.53495
Zinc (ug/l)	16	85.68750	64.36793	107.00707	83.5	1371	40	170	50	110	130	60	1600.76250	40.00953	10.00238	0.72357	0.56431	-0.47575	0.109077

Station: GCR-37

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	73	119.67123	116.27073	123.07173	118	8736	91	207	112	123	116	11	212.41819	14.57457	1.70582	3.24915	0.28103	17.65097	0.55522
Ammonia (mg/l as N)	75	0.54600	0.49363	0.59837	0.5	40.95	0.05	1.1	0.4	0.7	1.05	0.3	0.05181	0.22761	0.02628	0.30318	0.27740	-0.22678	0.54821
BOD (mg/l)	34	2.15000	1.73776	2.56224	1.9	73.1	0.5	7	1.4	2.6	6.5	1.2	1.39591	1.18149	0.20262	2.16585	0.40305	7.74612	0.78790
COD (mg/l)	75	13.85200	12.54099	15.16301	12.7	1038.9	7	46	10.8	15	39	4.2	32.46821	5.69809	0.65796	2.97698	0.27740	13.45605	0.54821
Cyanide (mg/l)	74	0.00722	0.00572	0.00872	0.006	0.534	0.005	0.059	0.005	0.007	0.054	0.002	0.00004	0.00648	0.00075	7.21469	0.27920	57.60834	0.55168
Nitrate (mg/l as N)	75	1.18533	1.11212	1.25855	1.2	88.9	0.4	2.1	1	1.3	1.7	0.3	0.10127	0.31823	0.03675	0.52257	0.27740	1.04287	0.54821
Total Phosphorus (mg/l as P)	75	0.05807	0.04764	0.06849	0.05	4.355	0.015	0.38	0.04	0.06	0.365	0.02	0.00205	0.04532	0.00523	5.05027	0.27740	34.57151	0.54821
Total Solids (mg/l)	73	297.67123	287.75181	307.59065	294	21730	209	453	269	315	244	46	1807.50152	42.51472	4.97597	1.07091	0.28103	2.34105	0.55522
Suspended Solids (mg/l)	73	9.91781	7.20419	12.63143	7	724	2	87	5	11	85	6	135.27093	11.63060	1.36126	4.55803	0.28103	27.14198	0.55522
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	1	36.00000				36	36	36											
TKN (mg/l as N)	75	1.04133	0.96539	1.11727	1	78.1	0.5	2.2	0.8	1.2	1.7	0.4	0.10894	0.33007	0.03811	0.87955	0.27740	1.14076	0.54821
E. coli (CFU/100ml)	70	2043.78571	530.80334	3556.76809	150	143065	5	45000	40	570	44995	530	40262778.57660	6345.29578	758.40791	5.13277	0.28675	31.21821	0.56627
TOC (mg/l)	0																		
Hardness (mg/l)	73	171.30137	167.08770	175.51504	170	12505	128	216	158	185	88	27	326.15791	18.05984	2.11374	0.11302	0.28103	-0.09364	0.55522
Chloride (mg/l)	73	43.34247	40.51894	46.16600	42	3164	18	96	37	47	78	10	146.45053	12.10167	1.41639	1.59852	0.28103	4.97729	0.55522
Dissolved Oxygen (mg/l)	60	7.83517	7.41400	8.25633	8.05	470.11	4.7	11.34	6.65	9.13	6.64	2.48	2.65805	1.63035	0.21048	-0.03555	0.30869	-0.84169	0.60849
pH	59	7.78593	7.70480	7.86707	7.83	459.37	6.94	8.29	7.66	8	1.35	0.34	0.09693	0.31134	0.04053	-0.83822	0.31118	0.84514	0.61326
Copper (ug/l)	15	5.32000	4.03173	6.60827	5	79.8	2	12	4	6	10	2	5.41171	2.32631	0.60065	1.48006	0.58012	4.67097	1.12090
Iron (ug/l)	74	887.56757	714.70553	1060.42960	675	65680	170	5400	470	1000	5230	530	556695.37208	746.12021	86.73471	3.54805	0.27920	18.11557	0.55168
Zinc (ug/l)	74	35.63514	31.39934	39.87093	30	2637	10	120	20	42	110	22	334.26231	18.28284	2.12534	1.83152	0.27920	5.46582	0.55168

Station: GCR-42

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	77	117.42857	113.74045	121.11670	115	9042	82	198	110	119	116	9	264.03759	16.24923	1.85177	2.70086	0.27391	10.42054	0.54146
Ammonia (mg/l as N)	79	0.65063	0.59215	0.70912	0.6	51.4	0.2	1.4	0.4	0.8	1.2	0.4	0.06817	0.26110	0.02938	0.94147	0.27054	0.63620	0.53495
BOD (mg/l)	36	4.74167	-1.95397	11.43730	1.25	170.7	0.5	120	0.5	2.05	119.5	1.55	391.60479	19.78901	3.29817	5.97106	0.39254	35.75938	0.76808
COD (mg/l)	78	11.26154	9.65490	12.86818	9	878.4	2.5	42	7.3	12	39.5	4.7	50.77850	7.12590	0.80685	2.54738	0.27221	7.85451	0.53818
Cyanide (mg/l)	77	0.00688	0.00578	0.00799	0.005	0.53	0.005	0.039	0.005	0.007	0.034	0.002	0.00002	0.00486	0.00055	4.82602	0.27391	27.69010	0.54146
Nitrate (mg/l as N)	78	0.53205	0.41932	0.64478	0.4	41.5	0.3	4.5	0.4	0.5	4.2	0.1	0.25000	0.50000	0.05661	6.97384	0.27221	53.43680	0.53818
Total Phosphorus (mg/l as P)	79	0.06506	-0.00847	0.13859	0.015	5.14	0.015	2.92	0.015	0.03	2.905	0.015	0.10776	0.32827	0.03693	8.66122	0.27054	76.10214	0.53495
Total Solids (mg/l)	77	228.67532	214.96189	242.38876	214	17608	194	653	205	227	459	22	3650.45899	60.41903	6.88539	5.27546	0.27391	33.42306	0.54146
Suspended Solids (mg/l)	78	8.62821	6.73864	10.51777	6	673	2	50	2	11	48	9	70.23660	8.38073	0.94893	2.44907	0.27221	7.92384	0.53818
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	1	19.00000				19	19	19											
TKN (mg/l as N)	1	1.50000				1.5	1.5	1.5											
E. coli (CFU/100ml)	74	925.13514	226.90786	1623.36241	45	68460	5	19000	10	270	18995	260	9082637.65272	3013.74147	350.34033	4.71505	0.27920	23.76633	0.55168
TOC (mg/l)	1	8.10000				8.1	8.1	8.1											
Hardness (mg/l)	77	152.42857	146.62500	158.23214	150	11737	108	294	142	158	186	16	653.80075	25.56953	2.91392	3.55551	0.27391	17.98974	0.54146
Chloride (mg/l)	3	27.33333	-1.67192	56.33859	25	82	17	40			23		136.33333	11.67619	6.74125	0.86335	1.22474		
Dissolved Oxygen (mg/l)	59	8.58051	8.24588	8.91513	8.6	506.25	4.1	11.26	7.73	9.4	7.16	1.67	1.64879	1.28405	0.16717	-0.54946	0.31118	1.56940	0.61326
pH	58	8.02672	7.93147	8.12198	8.125	465.55	6.85	8.74	7.88	8.27	1.89	0.39	0.13124	0.36228	0.04757	-1.24583	0.31372	2.01434	0.61814
Copper (ug/l)	17	5.82941	5.08040	6.57842	6	99.1	2	8	5	7	6	2	2.12221	1.45678	0.35332	-1.13874	0.54975	1.72382	1.06320
Iron (ug/l)	77	572.07792	503.83579	640.32006	540	44050	120	1600	360	710	1480	350	90398.25701	300.66303	34.26373	1.06373	0.27391	1.16881	0.54146
Zinc (ug/l)	16	30.81250	20.90409	40.72091	30	493	10	90	20	40	80	20	345.76250	18.59469	4.64867	2.24206	0.56431	6.84441	1.09077

Station: IHC-0

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	68	116.16176	113.01562	119.30791	113	7899	82	165	108	124	83	16	168.94359	12.99783	1.57622	0.94284	0.29076	2.36609	0.57400
Ammonia (mg/l as N)	69	0.34638	0.28803	0.40472	0.3	23.9	0.05	1.2	0.2	0.5	1.15	0.3	0.05899	0.24289	0.02924	0.94278	0.28874	0.90734	0.57010
BOD (mg/l)	32	1.31875	0.90529	1.73221	1.1	42.2	0.5	5.5	0.5	1.55	5	1.05	1.31512	1.14679	0.20273	2.30464	0.41446	5.95572	0.80937
COD (mg/l)	69	10.70000	9.72651	11.67349	9.9	738.3	2.5	23	8	12	20.5	4	16.42176	4.05238	0.48785	1.23571	0.28874	1.71915	0.57010
Cyanide (mg/l)	68	0.00615	0.00537	0.00692	0.005	0.418	0.005	0.029	0.005	0.006	0.024	0.001	0.00001	0.00320	0.00039	5.79554	0.29076	39.85840	0.57400
Nitrate (mg/l as N)	69	1.00725	0.92178	1.09271	0.9	69.5	0.3	2.2	0.8	1.2	1.9	0.4	0.12656	0.35576	0.04283	0.75609	0.28874	0.97851	0.57010
Total Phosphorus (mg/l as P)	69	0.04746	0.04148	0.05345	0.04	3.275	0.015	0.14	0.03	0.06	0.125	0.03	0.00062	0.02491	0.00300	1.20986	0.28874	2.08085	0.57010
Total Solids (mg/l)	68	291.13235	278.27955	303.98515	281	19797	182	429	254.5	324.5	247	70	2819.54939	53.09943	6.43925	0.52077	0.29076	0.08111	0.57400
Suspended Solids (mg/l)	68	7.60294	5.84195	9.36393	6	517	2	41	2	9	39	7	52.92954	7.27527	0.88226	2.92778	0.29076	10.97626	0.57400
Dissolved Solids (mg/l)	68	271.51471	259.37141	283.65800	261	18463	176	403	238	304	227	66	2516.85053	50.16822	6.08379	0.65902	0.29076	0.23347	0.57400
Sulfate (mg/l)	3	46.66667	38.68128	54.65205	48	140	43	49			6		10.33333	3.21455	1.85592	-1.54539	1.22474		
TKN (mg/l as N)	69	0.78246	0.69736	0.86757	0.8	53.99	0.3	1.9	0.5	1	1.6	0.5	0.12551	0.35428	0.04265	0.89652	0.28874	0.82706	0.57010
E. coli (CFU/100ml)	65	168.23077	90.64500	245.81654	60	10935	5	1900	20	160	1895	140	98040.18029	313.11369	38.83697	3.67796	0.29712	15.74475	0.58624
TOC (mg/l)	0																		
Hardness (mg/l)	68	171.00000	165.09906	176.90094	168	11628	116	232	156	186.5	116	30.5	594.32836	24.37885	2.95637	0.15717	0.29076	0.23866	0.57400
Chloride (mg/l)	68	43.98529	39.97961	47.99098	40.5	2991	14	92	32	52.5	78	20.5	273.86545	16.54888	2.00685	0.92956	0.29076	0.53482	0.57400
Dissolved Oxygen (mg/l)	54	8.39741	8.02221	8.77260	8.3	453.46	5.4	12.65	7.64	8.9	7.25	1.26	1.88954	1.37460	0.18706	0.72177	0.32456	1.95858	0.63889
pH	53	7.94604	7.86370	8.02838	7.98	421.14	7.02	8.48	7.81	8.14	1.46	0.33	0.08924	0.29874	0.04103	-1.06772	0.32745	1.64496	0.64442
Copper (ug/l)	69	4.05507	3.57617	4.53398	4	279.8	2	10	2	5	8	3	3.97428	1.99356	0.24000	0.74175	0.28874	0.06817	0.57010
Iron (ug/l)	69	506.75362	388.14324	625.36401	370	34966	56	3300	240	600	3244	360	243783.65899	493.74453	59.43986	3.63760	0.28874	17.05719	0.57010
Zinc (ug/l)	69	36.88406	31.30649	42.46163	30	2545	10	170	20	41	160	21	539.07460	23.21798	2.79512	3.33052	0.28874	15.97474	0.57010

Station: IHC-2

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	51	126.09804	121.58769	130.60839	125	6431	98	180	114	133	82	19	257.17020	16.03653	2.24556	1.19445	0.33346	2.12371	0.65592
Ammonia (mg/l as N)	52	0.53365	0.44768	0.61963	0.5	27.75	0.05	1.5	0.3	0.7	1.45	0.4	0.09536	0.30881	0.04282	0.81975	0.33041	0.69201	0.65009
BOD (mg/l)	24	1.92083	1.44849	2.39318	1.45	46.1	0.5	4.8	1.2	2.55	4.3	1.35	1.25129	1.11861	0.22834	0.99545	0.47226	0.57121	0.91778
COD (mg/l)	52	13.45769	12.12761	14.78778	13.55	699.8	5	33	10.45	15.65	28	5.2	22.82523	4.77758	0.66253	1.55183	0.33041	4.78868	0.65009
Cyanide (mg/l)	51	0.00610	0.00561	0.00658	0.005	0.311	0.005	0.013	0.005	0.007	0.008	0.002	0.00000	0.00172	0.00024	2.03845	0.33346	4.52037	0.65592
Nitrate (mg/l as N)	52	1.38077	1.25088	1.51066	1.35	71.8	0.3	2.8	1.1	1.6	2.5	0.5	0.21766	0.46654	0.06470	0.58934	0.33041	1.50364	0.65009
Total Phosphorus (mg/l as P)	52	0.06798	0.05816	0.07781	0.06	3.535	0.015	0.23	0.05	0.07	0.215	0.02	0.00125	0.03529	0.00489	2.57700	0.33041	9.13304	0.65009
Total Solids (mg/l)	51	320.45098	306.65593	334.24603	321	16343	165	420	289	354	255	65	2405.73255	49.04827	6.86813	-0.39496	0.33346	0.89060	0.65592
Suspended Solids (mg/l)	51	7.80392	5.43268	10.17516	6	398	2	56	4	9	54	5	71.08078	8.43094	1.18057	4.07363	0.33346	21.45721	0.65592
Dissolved Solids (mg/l)	51	299.64706	287.78027	311.51384	305	15282	170	386	274	319	216	45	1780.19294	42.19233	5.90811	-0.35912	0.33346	0.66470	0.65592
Sulfate (mg/l)	0																		
TKN (mg/l as N)	52	1.04519	0.93939	1.15100	1	54.35	0.05	2.2	0.8	1.3	2.15	0.5	0.14444	0.38005	0.05270	0.43543	0.33041	1.00382	0.65009
E. coli (CFU/100ml)	48	357.50000	174.42836	540.57164	75	17160	5	3400	20	450	3395	430	397502.12766	630.47770	91.00162	3.15709	0.34315	12.00714	0.67440
TOC (mg/l)	0																		
Hardness (mg/l)	51	182.78431	175.07398	190.49465	182	9322	112	240	168	201	128	33	751.53255	27.41409	3.83874	-0.34360	0.33346	0.09291	0.65592
Chloride (mg/l)	51	50.13725	46.56542	53.70909	51	2557	12	83	42	59	71	17	161.28078	12.69964	1.77830	-0.18033	0.33346	0.90454	0.65592
Dissolved Oxygen (mg/l)	48	7.69521	7.17910	8.21131	7.64	369.37	4.8	12.39	6.3	8.92	7.59	2.62	3.15917	1.77741	0.25655	0.40401	0.34315	-0.39379	0.67440
pH	46	7.79087	7.70877	7.87297	7.78	358.38	6.99	8.36	7.57	7.95	1.37	0.38	0.07643	0.27647	0.04076	-0.02053	0.35010	0.43518	0.68763
Copper (ug/l)	52	4.40385	3.85854	4.94915	4.65	229	2	12	2	5.2	10	3.2	3.83646	1.95869	0.27162	1.07826	0.33041	3.33356	0.65009
Iron (ug/l)	52	674.40385	552.12156	796.68613	545	35069	89	2600	420	850	2511	430	192922.59842	439.22955	60.91018	2.10825	0.33041	6.44284	0.65009
Zinc (ug/l)	52	35.00000	25.45456	44.54544	30	1820	5	260	20	40	255	20	1175.56863	34.28657	4.75469	5.74446	0.33041	37.77755	0.65009

Station: IHC-3S

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Std.Err. Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	75	127.08000	122.02112	132.13888	122	9531	102	266	117	133	164	16	483.45297	21.98756	2.53891	3.87730	0.27740	21.47602	0.54821
Ammonia (mg/l as N)	77	0.63052	0.54535	0.71569	0.6	48.55	0.05	2.2	0.4	0.8	2.15	0.4	0.14080	0.37523	0.04276	1.38601	0.27391	2.95436	0.54146
BOD (mg/l)	36	2.30278	1.87567	2.72988	2.05	82.9	0.5	6.6	1.45	2.8	6.1	1.35	1.59342	1.26231	0.21038	1.44412	0.39254	2.92754	0.76808
COD (mg/l)	77	15.55195	14.14240	16.96149	14.9	1197.5	8.2	40	11.6	17.5	31.8	5.9	38.56674	6.21021	0.70772	1.80854	0.27391	4.15749	0.54146
Cyanide (mg/l)	76	0.00691	0.00634	0.00748	0.006	0.525	0.005	0.014	0.005	0.008	0.009	0.003	0.00001	0.00249	0.00029	1.40591	0.27564	0.97717	0.54480
Nitrate (mg/l as N)	77	1.47532	1.38231	1.56834	1.5	113.6	0.4	2.4	1.2	1.7	2	0.5	0.16794	0.40980	0.04670	-0.05948	0.27391	-0.04926	0.54146
Total Phosphorus (mg/l as P)	77	0.06643	0.05863	0.07423	0.06	5.115	0.015	0.18	0.05	0.08	0.165	0.03	0.00118	0.03436	0.00392	1.04508	0.27391	1.20316	0.54146
Total Solids (mg/l)	75	328.64000	316.14736	341.13264	319	24648	207	447	291	365	240	74	2948.17946	54.29714	6.26969	0.16389	0.27740	-0.55560	0.54821
Suspended Solids (mg/l)	75	9.22667	7.47216	10.98117	8	692	2	44	4	12	42	8	58.15063	7.62566	0.88053	1.94413	0.27740	5.67007	0.54821
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	1	50.00000				50	50	50											
TKN (mg/l as N)	77	1.25844	1.14008	1.37680	1.2	96.9	0.6	3.2	0.8	1.6	2.6	0.8	0.27193	0.52147	0.05943	1.08372	0.27391	1.40659	0.54146
E. coli (CFU/100ml)	71	2890.42254	375.72977	5405.11530	210	205220	5	84000	40	1700	83995	1660	112872336.96177	10624.13935	1260.85337	6.77362	0.28480	50.33825	0.56251
TOC (mg/l)	0																		
Hardness (mg/l)	75	184.96000	178.26112	191.65888	180	13872	120	304	166	202	184	36	847.71459	29.11554	3.36197	0.86273	0.27740	2.68362	0.54821
Chloride (mg/l)	74	50.36486	46.70617	54.02356	48	3727	17	97	40	59	80	19	249.38560	15.79195	1.83578	0.65421	0.27920	0.32396	0.55168
Dissolved Oxygen (mg/l)	58	7.53741	7.07173	8.00310	7.65	437.17	4.4	12.01	6.08	8.9	7.61	2.82	3.13674	1.77109	0.23255	0.10418	0.31372	-0.73200	0.61814
pH	57	7.72491	7.64355	7.80628	7.7	440.32	7.1	8.38	7.55	7.87	1.28	0.32	0.09403	0.30665	0.04062	0.26003	0.31633	-0.19142	0.62313
Copper (ug/l)	1	5.00000				5	5	5											
Iron (ug/l)	76	818.02632	713.05563	922.99700	740	62170	220	2400	490	975	2180	485	211021.38596	459.37064	52.69343	1.38721	0.27564	2.09547	0.54480
Zinc (ug/l)	2	18019.00000	-210451.26736	246489.26736	18019	36038	38	36000			35962		646632722.00000	25428.97407	17981.00000				

Station: IHC-3W

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Std.Err. Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	78	129.15385	125.08587	133.22182	127	10074	104	228	117	136	124	19	325.53447	18.04257	2.04292	2.40719	0.27221	10.77820	0.53818
Ammonia (mg/l as N)	79	0.59684	0.52172	0.67195	0.6	47.15	0.05	1.7	0.3	0.8	1.65	0.5	0.11246	0.33535	0.03773	0.80496	0.27054	0.46339	0.53495
BOD (mg/l)	37	2.07838	1.71094	2.44582	1.7	76.9	0.5	5.7	1.3	2.6	5.2	1.3	1.21452	1.10205	0.18118	1.30641	0.38759	2.04985	0.75872
COD (mg/l)	79	14.48608	13.42961	15.54254	14	1144.4	7.3	32	11	17	24.7	6	22.24634	4.71660	0.53066	1.08547	0.27054	1.88744	0.53495
Cyanide (mg/l)	78	0.00660	0.00603	0.00718	0.006	0.515	0.005	0.019	0.005	0.008	0.014	0.003	0.00001	0.00254	0.00029	2.92579	0.27221	10.36497	0.53818
Nitrate (mg/l as N)	79	1.50127	1.42650	1.57603	1.5	118.6	0.6	2.2	1.3	1.7	1.6	0.4	0.11141	0.33378	0.03755	-0.03891	0.27054	-0.24916	0.53495
Total Phosphorus (mg/l as P)	79	0.06000	0.05426	0.06574	0.06	4.74	0.015	0.14	0.04	0.07	0.125	0.03	0.00066	0.02565	0.00289	0.97909	0.27054	1.38162	0.53495
Total Solids (mg/l)	78	338.17949	326.88068	349.47829	337.5	26378	210	434	296	375	224	79	2511.34399	50.11331	5.67422	0.03526	0.27221	-0.66166	0.53818
Suspended Solids (mg/l)	78	6.08974	5.12412	7.05537	5.5	475	2	21	2	8	19	6	18.34249	4.28281	0.48493	1.29876	0.27221	1.86247	0.53818
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	1	57.00000				57	57	57											
TKN (mg/l as N)	79	1.26165	1.15650	1.36679	1.2	99.67	0.6	2.8	0.9	1.5	2.2	0.6	0.22037	0.46943	0.05282	1.12131	0.27054	1.56805	0.53495
E. coli (CFU/100ml)	74	215.47297	131.96880	298.97715	50	15945	5	1700	10	210	1695	200	129907.64994	360.42704	41.89879	2.29402	0.27920	4.83004	0.55168
TOC (mg/l)	0																		
Hardness (mg/l)	78	189.01282	182.69807	195.32757	186.5	14743	128	292	173	205	164	32	784.42840	28.00765	3.17124	0.50124	0.27221	1.43706	0.53818
Chloride (mg/l)	78	53.19231	49.85147	56.53315	51.5	4149	24	110	42	64	86	22	219.55994	14.81756	1.67776	0.77110	0.27221	1.59109	0.53818
Dissolved Oxygen (mg/l)	59	7.66678	7.26088	8.07268	7.71	452.34	4.5	12.41	6.6	8.8	7.91	2.2	2.42591	1.55753	0.20277	0.22550	0.31118	0.31930	0.61326
pH	58	7.74259	7.65526	7.82992	7.785	449.07	6.97	8.46	7.55	7.93	1.49	0.38	0.11031	0.33213	0.04361	-0.28603	0.31372	-0.09724	0.61814
Copper (ug/l)	3	4.46667	-1.74533	10.67867	4.4	13.4	2	7			5		6.25333	2.50067	1.44376	0.11988	1.22474		
Iron (ug/l)	78	562.05128	500.33146	623.77111	495	43840	180	1500	350	710	1320	360	74935.99734	273.74440	30.99545	1.15394	0.27221	1.70637	0.53818
Zinc (ug/l)	3	26.00000	17.39469	34.60531	24	78	24	30			6		12.00000	3.46410	2.00000	1.73205	1.22474		

Station: IWC-9

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	77	229.23377	220.17799	238.28954	230	17651	120	296	198	259	176	61	1591.86569	39.89819	4.54682	-0.43499	0.27391	0.01572	0.54146
Ammonia (mg/l as N)	78	0.08846	0.07172	0.10520	0.05	6.9	0.05	0.4	0.05	0.1	0.35	0.05	0.00551	0.07426	0.00841	2.21552	0.27221	4.69975	0.53818
BOD (mg/l)	37	2.42162	1.67761	3.16564	1.7	89.6	0.5	9	1.1	2.7	8.5	1.6	4.97952	2.23148	0.36685	1.60300	0.38759	1.93422	0.75872
COD (mg/l)	78	16.29641	14.87314	17.71968	14.75	1271.12	2.5	39	12	18.8	36.5	6.8	39.84880	6.31259	0.71476	1.09753	0.27221	1.58097	0.53818
Cyanide (mg/l)	78	0.00517	0.00501	0.00532	0.005	0.403	0.005	0.009	0.005	0.004	0.004	0	0.00000	0.00069	0.00008	4.35995	0.27221	18.76218	0.53818
Nitrate (mg/l as N)	78	2.97821	2.68449	3.27192	2.7	232.3	0.3	7	2.2	3.8	6.7	1.6	1.69705	1.30271	0.14750	0.76889	0.27221	0.85265	0.53818
Total Phosphorus (mg/l as P)	78	0.24256	0.21442	0.27070	0.215	18.92	0.05	0.61	0.15	0.31	0.56	0.16	0.01558	0.12481	0.01413	0.96041	0.27221	0.55535	0.53818
Total Solids (mg/l)	77	505.84416	486.30577	525.38254	493	38950	344	729	444	551	385	107	7410.23855	86.08274	9.81004	0.64270	0.27391	0.23650	0.54146
Suspended Solids (mg/l)	77	22.72727	18.73906	26.71549	20	1750	2	90	11	30	88	19	308.75359	17.57139	2.00245	1.55351	0.27391	3.39174	0.54146
Dissolved Solids (mg/l)	77	470.58442	447.56149	493.60734	461	36235	278	804	404	512	526	108	10289.06186	101.43501	11.55959	0.75463	0.27391	0.84151	0.54146
Sulfate (mg/l)	76	74.64474	68.27638	81.01309	73	5673	32	145	53	90	113	37	776.68544	27.86908	3.19680	0.69709	0.27564	-0.03561	0.54480
TKN (mg/l as N)	78	0.92564	0.84759	1.00370	0.8	72.2	0.4	2.1	0.7	1.1	1.7	0.4	0.11985	0.34620	0.03920	1.25626	0.27221	1.65022	0.53818
E. coli (CFU/100ml)	73	465.75342	294.83452	636.67233	240	34000	10	4200	120	460	4190	340	536644.21613	732.56004	85.73967	3.40890	0.28103	12.71963	0.55522
TOC (mg/l)	22	3.69545	3.38480	4.00611	3.55	81.3	2.4	5.1	3.3	4.2	2.7	0.9	0.49093	0.70066	0.14938	0.26338	0.49096	-0.22154	0.95278
Hardness (mg/l)	77	306.81818	295.47586	318.16050	316	23625	178	398	276	338	220	62	2497.22967	49.97229	5.69487	-0.57776	0.27391	0.04290	0.54146
Chloride (mg/l)	25	60.89200	49.05252	72.73148	56	1522.3	0.3	115	41	82	114.7	41	822.67493	28.68231	5.73646	0.19977	0.46368	-0.35741	0.90172
Dissolved Oxygen (mg/l)	61	10.16803	9.71562	10.62044	9.94	620.25	6.26	16.6	9.2	10.96	10.34	1.76	3.12036	1.76645	0.22617	0.74574	0.30627	2.32400	0.60384
pH	62	7.96774	7.87657	8.05892	8.035	494	6.99	8.53	7.8	8.21	1.54	0.41	0.12890	0.35903	0.04560	-0.87082	0.30390	0.62376	0.59929
Copper (ug/l)	78	3.97051	3.58428	4.35675	4	309.7	2	9	2	5	7	3	2.93457	1.71306	0.19397	0.46481	0.27221	-0.09328	0.53818
Iron (ug/l)	78	781.92308	634.00646	929.83969	615	60990	110	4200	420	940	4090	520	430402.74725	656.05087	74.28313	2.77164	0.27221	10.05551	0.53818
Zinc (ug/l)	78	11.51026	10.40400	12.61652	10	897.8	5	30	10	11	25	1	24.07444	4.90657	0.55556	1.95126	0.27221	4.11650	0.53818

Station: KR-68

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	65	191.01538	183.54872	198.48205	196	12416	104	259	176	208	155	32	908.01538	30.13329	3.73758	-0.99819	0.29712	1.72752	0.58624
Ammonia (mg/l as N)	65	0.07785	0.06009	0.09560	0.05	5.06	0.01	0.5	0.05	0.05	0.49	0	0.00514	0.07167	0.00889	3.79733	0.29712	18.56508	0.58624
BOD (mg/l)	32	1.04375	0.75186	1.33564	0.5	33.4	0.5	4.2	0.5	1.55	3.7	1.05	0.65544	0.80959	0.14312	2.15010	0.41446	6.31796	0.80937
COD (mg/l)	65	20.10462	18.29631	21.91292	19.8	1306.8	2.5	49.6	14.6	25	47.1	10.4	53.25795	7.29780	0.90518	1.00148	0.29712	3.21366	0.58624
Cyanide (mg/l)	62	0.00521	0.00504	0.00538	0.005	0.323	0.005	0.008	0.005	0.005	0.003	0	0.00000	0.00066	0.00008	3.34990	0.30390	10.79525	0.59929
Nitrate (mg/l as N)	65	1.62385	1.31548	1.93221	1.2	105.55	0.05	9	0.9	1.9	8.95	1	1.54868	1.24446	0.15436	3.59335	0.29712	18.73785	0.58624
Total Phosphorus (mg/l as P)	65	0.08169	0.07084	0.09254	0.07	5.31	0.015	0.24	0.05	0.11	0.225	0.06	0.00192	0.04378	0.00543	1.12465	0.29712	1.47794	0.58624
Total Solids (mg/l)	65	432.81538	408.53597	457.09480	429	28133	205	1020	409	452	815	43	9600.99663	97.98468	12.15350	3.10682	0.29712	20.87750	0.58624
Suspended Solids (mg/l)	65	25.01538	19.58954	30.44123	20	1626	2	152	13	32	150	19	479.48413	21.89713	2.71600	3.34937	0.29712	17.18160	0.58624
Dissolved Solids (mg/l)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sulfate (mg/l)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TKN (mg/l as N)	64	0.82969	0.74274	0.91664	0.8	53.1	0.3	2	0.6	1	1.7	0.4	0.12117	0.34809	0.04351	1.14113	0.29933	1.66609	0.59049
E. coli (CFU/100ml)	61	414.01639	175.09042	652.94237	110	25255	5	5000	40	260	4995	220	870296.51639	932.89684	119.44520	3.60213	0.30627	13.35054	0.60384
TOC (mg/l)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hardness (mg/l)	65	287.20000	275.94974	298.45026	300	18668	126	338	280	316	212	36	2061.41250	45.40278	5.63152	-1.91749	0.29712	3.65038	0.58624
Chloride (mg/l)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dissolved Oxygen (mg/l)	50	9.44800	8.90107	9.99493	9.595	472.4	6.22	13.46	7.8	10.78	7.24	2.98	3.70356	1.92446	0.27216	0.13059	0.33660	-0.90478	0.66191
pH	51	7.86237	7.76244	7.96230	7.89	400.981	6.73	8.92	7.7	8.04	2.19	0.34	0.12624	0.35530	0.04975	-0.50073	0.33346	3.53868	0.65592
Copper (ug/l)	65	3.99846	2.98165	5.01527	4	259.9	2	33	2	5	31	3	16.83922	4.10356	0.50898	5.74746	0.29712	39.86365	0.58624
Iron (ug/l)	65	1427.69231	1194.79940	1660.58521	1200	92800	260	6300	740	1900	6040	1160	883389.90385	939.88824	116.57879	2.37581	0.29712	10.20168	0.58624
Zinc (ug/l)	65	10.87385	9.21559	12.53210	10	706.8	2.25	40	6.9	10	37.75	3.1	44.78587	6.69222	0.83007	1.88848	0.29712	5.20376	0.58624

Station: KR-118

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	68	217.83824	211.55928	224.11719	225	14813	113	268	211.5	233	155	21.5	672.91374	25.94058	3.14576	-1.92263	0.29076	5.02379	0.57400
Ammonia (mg/l as N)	69	0.09130	0.07470	0.10791	0.05	6.3	0.05	0.3	0.05	0.1	0.25	0.05	0.00478	0.06911	0.00832	1.69845	0.28874	1.94313	0.57010
BOD (mg/l)	32	1.26875	0.88212	1.65538	1	40.6	0.5	5.1	0.5	1.65	4.6	1.15	1.14996	1.07236	0.18957	1.92519	0.41446	4.29951	0.80937
COD (mg/l)	69	20.09420	17.93984	22.24856	18	1386.5	10	65	14.1	21.6	55	7.5	80.42585	8.96805	1.07963	2.44014	0.28874	9.11394	0.57010
Cyanide (mg/l)	69	0.00504	0.00498	0.00511	0.005	0.348	0.005	0.007	0.005	0.002	0.002	0	0.00000	0.00027	0.00003	6.60627	0.28874	45.38393	0.57010
Nitrate (mg/l as N)	69	1.73768	1.23983	2.23554	1.2	119.9	0.6	16	1	1.6	15.4	0.6	4.29503	2.07245	0.24949	5.64355	0.28874	35.62735	0.57010
Total Phosphorus (mg/l as P)	69	0.06319	0.05041	0.07597	0.05	4.36	0.015	0.36	0.04	0.07	0.345	0.03	0.00283	0.05320	0.00640	3.16384	0.28874	14.25995	0.57010
Total Solids (mg/l)	68	432.70588	420.03865	445.37311	428.5	29424	322	711	416.5	448	389	31.5	2738.71817	52.33276	6.34628	2.62312	0.29076	13.04504	0.57400
Suspended Solids (mg/l)	68	25.13235	11.85395	38.41075	17	1709	2	460	10	25	458	15	3009.37028	54.85773	6.65248	7.65630	0.29076	61.33650	0.57400
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	69	0.80290	0.70497	0.90082	0.7	55.4	0.3	3.1	0.6	0.9	2.8	0.3	0.16617	0.40764	0.04907	2.90835	0.28874	13.96736	0.57010
E. coli (CFU/100ml)	68	834.77941	433.69861	1235.86022	275	56765	5	9400	91.5	610	9395	518.5	2745667.60733	1657.00561	200.94145	3.54912	0.29076	14.03474	0.57400
TOC (mg/l)	0																		
Hardness (mg/l)	68	303.02941	292.56660	313.49222	317.5	20606	160	398	272.5	334.5	238	62	1868.44688	43.22554	5.24187	-1.03348	0.29076	1.43471	0.57400
Chloride (mg/l)	1	16.00000				16	16	16											
Dissolved Oxygen (mg/l)	55	9.44673	9.00603	9.88742	9.56	519.57	6.04	12.86	7.82	10.45	6.82	2.63	2.65746	1.63017	0.21981	-0.00611	0.32174	-0.58870	0.63351
pH	54	7.81611	7.73990	7.89232	7.85	422.07	6.83	8.47	7.72	7.96	1.64	0.24	0.07796	0.27921	0.03800	-0.84720	0.32456	2.36568	0.63889
Copper (ug/l)	70	3.01429	2.43805	3.59052	2	211	2	18	2	4	16	2	5.84037	2.41669	0.28885	4.11148	0.28675	21.78247	0.56627
Iron (ug/l)	70	1442.42857	939.04799	1945.80915	1150	100970	240	18000	730	1600	17760	870	4456859.23395	2111.12748	252.32800	7.19690	0.28675	56.73122	0.56627
Zinc (ug/l)	70	10.53071	7.88083	13.18060	10	737.15	2.25	90	5	10	87.75	5	123.50662	11.11335	1.32830	5.52869	0.28675	38.47316	0.56627

Station: LCR-13

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	101	214.98020	204.45768	225.50271	224	21713	78	322	180	262	244	82	2841.11960	53.30215	5.30376	-0.24399	0.24022	-0.38113	0.47606
Ammonia (mg/l as N)	103	0.32767	0.28750	0.36784	0.3	33.75	0.05	1.1	0.2	0.4	1.05	0.2	0.04224	0.20553	0.02025	1.29013	0.23794	2.84496	0.47163
BOD (mg/l)	50	2.47600	2.09107	2.86093	2.3	123.8	0.5	5.6	1.6	3.7	5.1	2.1	1.83451	1.35444	0.19155	0.26436	0.33660	-0.78652	0.66191
COD (mg/l)	103	31.49806	29.28832	33.70780	30	3244.3	10	100	26	35	90	9	127.83745	11.30652	1.11406	2.70663	0.23794	13.41784	0.47163
Cyanide (mg/l)	101	0.01289	0.01030	0.01548	0.008	1.302	0.005	0.08	0.014	0.075	0.009	0.00017	0.01312	0.00131	2.74966	0.24022	8.89291	0.47606	
Nitrate (mg/l as N)	103	3.13107	2.79027	3.47187	2.9	322.5	0.05	9.2	1.9	4	9.15	2.1	3.04074	1.74377	0.17182	1.38021	0.23794	2.37760	0.47163
Total Phosphorus (mg/l as P)	103	0.46757	0.39955	0.53559	0.36	48.16	0.04	1.85	0.24	0.6	1.81	0.36	0.12113	0.34804	0.03429	1.57035	0.23794	3.20292	0.47163
Total Solids (mg/l)	99	794.64646	739.45352	849.83941	720	78670	302	1707	611	1010	1405	399	76579.82272	276.73060	27.81247	0.99861	0.24256	1.19243	0.48063
Suspended Solids (mg/l)	101	55.66337	43.03469	68.29204	36	5622	7	468	18	63	461	45	4092.28554	63.97097	6.36535	3.45803	0.24022	17.15935	0.47606
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	99	2794.94949	1936.18745	3653.71154	1200	276700	5	25000	440	3500	24995	3060	18539281.88518	4305.72664	432.74181	3.13306	0.24256	10.92653	0.48063
TOC (mg/l)	0																		
Hardness (mg/l)	101	356.68317	336.88786	376.47848	359	36025	86	600	300	424	514	124	10054.83861	100.27382	9.97762	-0.00377	0.24022	0.36579	0.47606
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	58	8.22017	7.61020	8.83014	8.41	476.77	2.42	12.23	6.65	10.11	9.81	3.46	5.38166	2.31984	0.30461	-0.63267	0.31372	-0.07252	0.61814
pH	57	7.76105	7.66644	7.85567	7.76	442.38	6.8	8.45	7.52	7.98	1.65	0.46	0.12716	0.35659	0.04723	-0.11550	0.31633	-0.21456	0.62313
Copper (ug/l)	1	2.00000				2	2	2											
Iron (ug/l)	1	820.00000				820	820	820											
Zinc (ug/l)	1	32.00000				32	32	32											

Station: LCR-39

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	73	222.15068	212.41696	231.88441	230	16217	92	328	198	251	236	53	1740.46309	41.71886	4.88282	-0.62896	0.28103	0.68194	0.55522
Ammonia (mg/l as N)	74	0.09865	0.07891	0.11839	0.05	7.3	0.05	0.4	0.05	0.1	0.35	0.05	0.00726	0.08520	0.00990	1.93860	0.27920	3.32423	0.55168
BOD (mg/l)	34	1.43824	1.05747	1.81901	1.2	48.9	0.5	4.2	0.5	2	3.7	1.5	1.19092	1.09129	0.18716	1.00119	0.40305	0.04125	0.78790
COD (mg/l)	1	10.00000				10	10	10											
Cyanide (mg/l)	2	0.00700	-0.01841	0.03241	0.007	0.014	0.005	0.009					0.004		0.00001	0.00283	0.00200		
Nitrate (mg/l as N)	74	17.62973	-14.465105	49.91051	1.3	1304.6	0.4	1200	1	1.8	1199.6	0.8	19413.61006	139.33273	16.19710	8.60192	0.27920	73.99528	0.55168
Total Phosphorus (mg/l as P)	74	0.09831	0.08312	0.11350	0.08	7.275	0.015	0.38	0.05	0.13	0.365	0.08	0.00430	0.06557	0.00762	2.01559	0.27920	5.37322	0.55168
Total Solids (mg/l)	72	453.40278	436.10090	470.70466	455	32645	266	702	422.5	476	436	53.5	5421.17351	73.62862	8.67722	0.51749	0.28290	2.73214	0.55883
Suspended Solids (mg/l)	73	24.38356	19.55969	29.20743	18	1780	2	84	8	29	82	21	427.46195	20.67515	2.41984	1.35821	0.28103	1.28911	0.55522
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	71	871.94366	502.56073	1241.32660	300	61908	5	9700	120	780	9695	660	2435405.65392	1560.57863	185.20661	3.50116	0.28480	15.10630	0.56251
TOC (mg/l)	0																		
Hardness (mg/l)	73	295.63014	282.96621	308.29406	307	21581	122	410	259	332	288	73	2946.06963	54.27771	6.35273	-0.90190	0.28103	1.37569	0.55522
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	56	9.30393	8.83127	9.77659	9.085	521.02	6	13.44	7.83	10.465	7.44	2.635	3.11511	1.76497	0.23585	0.35832	0.31900	-0.54378	0.62826
pH	55	7.88400	7.80883	7.95917	7.94	433.62	7.01	8.38	7.69	8.07	1.37	0.38	0.07732	0.27807	0.03749	-0.79807	0.32174	0.79054	0.63351
Copper (ug/l)	1	2.00000				2	2	2											
Iron (ug/l)	0																		
Zinc (ug/l)	1	10.00000				10	10	10											

Station: LM-DSP

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	9	122.11111	99.28140	144.94083	111	1099	102	195	106	119	93	13	882.11111	29.70036	9.90012	2.26053	0.71714	5.33230	1.39971
Ammonia (mg/l as N)	9	0.05000			0.05	0.45	0.05	0.05	0.05	0.05	0	0	0.00000	0.00000	0.00000				
BOD (mg/l)	4	0.62500	0.22719	1.02281	0.5	2.5	0.5	1	0.5	0.75	0.5	0.25	0.06250	0.25000	0.12500	2.00000	1.01419	4.00000	2.61861
COD (mg/l)	9	11.68889	7.02870	16.34908	10.7	105.2	2.5	22	8.5	15.6	19.5	7.1	36.75611	6.06268	2.02089	0.24519	0.71714	-0.36299	1.39971
Cyanide (mg/l)	9	0.00500			0.005	0.045	0.005	0.005	0.005	0.005	0	0	0.00000	0.00000	0.00000				
Nitrate (mg/l as N)	9	0.26667	0.20010	0.33324	0.2	2.4	0.2	0.4	0.2	0.3	0.2	0.1	0.00750	0.08660	0.02887	0.82479	0.71714	-1.07937	1.39971
Total Phosphorus (mg/l as P)	9	0.01944	0.01240	0.02649	0.015	0.175	0.015	0.04	0.015	0.015	0.025	0	0.00008	0.00917	0.00306	1.92938	0.71714	2.77604	1.39971
Total Solids (mg/l)	9	205.66667	191.44112	219.89222	208	1851	181	233	191	213	52	22	342.50000	18.50676	6.16892	0.71714	-0.99857	1.39971	
Suspended Solids (mg/l)	9	8.66667	3.94389	13.38944	9	78	2	22	4	10	20	6	37.75000	6.14410	2.04803	1.18858	0.71714	2.24464	1.39971
Dissolved Solids (mg/l)	9	187.88889	174.35812	201.41965	180	1691	171	219	177	197	48	20	309.86111	17.60287	5.86762	1.06030	0.71714	-0.39821	1.39971
Sulfate (mg/l)	9	23.77778	21.71602	25.83953	23	214	21	29	22	24	8	2	7.19444	2.68225	0.89408	1.05328	0.71714	0.50699	1.39971
TKN (mg/l as N)	9	0.26667	0.17252	0.36081	0.2	2.4	0.1	0.5	0.2	0.3	0.4	0.1	0.01500	0.12247	0.04082	0.81650	0.71714	0.34921	1.39971
E. coli (CFU/100ml)	9	66.11111	17.35301	114.86922	40	595	5	170	10	120	165	110	4023.61111	63.43194	21.14398	0.62116	0.71714	-1.36957	1.39971
TOC (mg/l)	0																		
Hardness (mg/l)	9	147.88889	118.08765	177.69013	147	1331	106	233	116	153	127	37	1503.11111	38.76998	12.92333	1.29253	0.71714	2.41551	1.39971
Chloride (mg/l)	9	16.00000	11.32437	20.67563	12	144	11	26	12	20	15	8	37.00000	6.08276	2.02759	0.96402	0.71714	-0.88600	1.39971
Dissolved Oxygen (mg/l)	8	10.15750	9.12459	11.19041	9.99	81.26	8.88	12.57	9.145	10.77	3.69	1.625	1.52648	1.23551	0.43682	1.08315	0.75210	0.96342	1.48088
pH	8	8.16625	7.89850	8.43400	8.245	65.33	7.58	8.47	7.985	8.41	0.89	0.425	0.10257	0.32026	0.11323	-1.11428	0.75210	0.17631	1.48088
Copper (ug/l)	9	2.42222	1.44858	3.39587	2	21.8	2	5.8	2	2	3.8	0	1.60444	1.26667	0.42222	3.00000	0.71714	9.00000	1.39971
Iron (ug/l)	9	272.33333	127.32374	417.34292	250	2451	10	510	140	420	500	280	35589.00000	188.65047	62.88349	-0.09102	0.71714	-1.73746	1.39971
Zinc (ug/l)	9	2.87222	1.90753	3.83691	2.25	25.85	2.25	5.5	2.25	2.25	3.25	0	1.57507	1.25502	0.41834	1.75751	0.71714	1.65227	1.39971

Station: LM-EC

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	71	113.16901	110.58635	115.75168	112	8035	73	150	108	115	77	7	119.05674	10.91131	1.29493	0.85823	0.28480	5.48151	0.56251
Ammonia (mg/l as N)	72	0.05972	0.04437	0.07508	0.05	4.3	0.05	0.6	0.05	0.05	0.55	0	0.00427	0.06535	0.00770	8.19409	0.28290	68.48920	0.55883
BOD (mg/l)	35	0.59143	0.51007	0.67279	0.5	20.7	0.5	1.4	0.5	0.5	0.9	0	0.05610	0.23686	0.04004	2.50269	0.39769	5.24828	0.77779
COD (mg/l)	72	7.62361	6.17529	9.07193	6	548.9	2.5	46	3.75	9	43.5	5.25	37.98718	6.16337	0.72636	3.71876	0.28290	20.71789	0.55883
Cyanide (mg/l)	71	0.00515	0.00501	0.00530	0.005	0.366	0.005	0.009	0.005	0.005	0.004	0	0.00000	0.00062	0.00007	4.59103	0.28480	22.85668	0.56251
Nitrate (mg/l as N)	72	0.33889	0.30483	0.37294	0.3	24.4	0.2	1.4	0.3	0.4	1.2	0.1	0.02100	0.14492	0.01708	5.59671	0.28290	41.09103	0.55883
Total Phosphorus (mg/l as P)	72	0.02153	0.01768	0.02538	0.015	1.55	0.015	0.09	0.015	0.015	0.075	0	0.00027	0.01637	0.00193	2.65401	0.28290	6.56730	0.55883
Total Solids (mg/l)	71	195.00000	186.92810	203.07190	188	13845	165	346	176	196	181	20	1162.97143	34.10237	4.04721	2.95381	0.28480	10.06592	0.56251
Suspended Solids (mg/l)	15	31.06667	6.93745	55.19588	12	466	2	166	6	43	164	37	1898.49524	43.57173	11.25017	2.49206	0.58012	6.71473	1.12090
Dissolved Solids (mg/l)	70	174.92857	167.70810	182.14904	170	12245	144	343	164	176	199	12	916.99482	30.28192	3.61938	4.71038	0.28675	24.28818	0.56627
Sulfate (mg/l)	71	25.70423	24.51172	26.89673	25	1825	21	64	24	26	43	2	25.38270	5.03812	0.59792	6.45109	0.28480	48.93500	0.56251
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	69	11.66667	3.76701	19.56632	5	805	5	240	5	5	235	0	1081.37255	32.88423	3.95880	5.90392	0.28874	37.19506	0.57010
TOC (mg/l)	0																		
Hardness (mg/l)	71	143.76056	140.42048	147.10064	143	10207	106	194	136	150	88	14	199.12757	14.11126	1.67470	0.81835	0.28480	2.87646	0.56251
Chloride (mg/l)	71	12.64789	11.39343	13.90234	12	898	9	55	11	13	46	2	28.08853	5.29986	0.62898	7.50279	0.28480	60.38367	0.56251
Dissolved Oxygen (mg/l)	0																		
pH	0																		
Copper (ug/l)	72	13.29861	9.81232	16.78491	11	957.5	2	120	8	13	118	5	220.10774	14.83603	1.74844	6.03830	0.28290	40.36213	0.55883
Iron (ug/l)	5	268.20000	56.76609	479.63391	340	1341	21	460	180	340	439	160	28996.20000	170.28271	76.15274	-0.67475	0.91287	-0.26739	2.00000
Zinc (ug/l)	72	7.94444	5.91613	9.97275	5	572	2.25	70	5	10	67.75	5	74.50328	8.63153	1.01724	5.52345	0.28290	38.14558	0.55883

Station: LM-G

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	75	112.78667	109.67185	115.90148	110	8459	75	196	108	117	121	9	183.27820	13.53803	1.56324	3.02004	0.27740	20.19040	0.54821
Ammonia (mg/l as N)	76	0.05197	0.04804	0.05591	0.05	3.95	0.05	0.2	0.05	0.05	0.15	0	0.00030	0.01721	0.00197	8.71780	0.27564	76.00000	0.54480
BOD (mg/l)	35	0.50000			0.5	17.5	0.5	0.5	0.5	0.5	0	0	0.00000	0.00000	0.00000				
COD (mg/l)	76	6.43026	5.80354	7.05699	6	488.7	2.5	13	5	8	10.5	3	7.52214	2.74265	0.31460	0.23857	0.27564	-0.35480	0.54480
Cyanide (mg/l)	76	0.00501	0.00499	0.00504	0.005	0.381	0.005	0.006	0.005	0.005	0.001	0	0.00000	0.00011	0.00001	8.71780	0.27564	76.00000	0.54480
Nitrate (mg/l as N)	76	0.30789	0.28496	0.33083	0.3	23.4	0.2	0.8	0.25	0.3	0.6	0.05	0.01007	0.10035	0.01151	2.27755	0.27564	9.12687	0.54480
Total Phosphorus (mg/l as P)	76	0.01697	0.01436	0.01959	0.015	1.29	0.015	0.11	0.015	0.015	0.095	0	0.00013	0.01143	0.00131	7.52342	0.27564	60.46756	0.54480
Total Solids (mg/l)	75	187.01333	182.51195	191.51472	182	14026	145	292	174	195	147	21	382.77009	19.56451	2.25912	2.39143	0.27740	10.63887	0.54821
Suspended Solids (mg/l)	75	9.16000	6.51117	11.80883	4	687	2	58	2	13	56	11	132.54162	11.51267	1.32937	2.51431	0.27740	7.33838	0.54821
Dissolved Solids (mg/l)	75	169.21333	166.06040	172.36627	170	12691	110	230	164	176	120	12	187.79171	13.70371	1.58237	0.07177	0.27740	8.99403	0.54821
Sulfate (mg/l)	75	24.45333	23.88812	25.01855	24	1834	21	38	23	26	17	3	6.03495	2.45661	0.28367	2.44575	0.27740	11.34910	0.54821
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	72	28.75694	0.00985	57.50404	5	2070.5	0.5	750	5	5	749.5	0	14965.61967	122.33405	14.41721	5.45262	0.28290	29.47627	0.55883
TOC (mg/l)	0																		
Hardness (mg/l)	75	143.09333	140.16975	146.01691	142	10732	112	202	136	150	90	14	161.46414	12.70685	1.46726	0.99858	0.27740	5.39170	0.54821
Chloride (mg/l)	75	12.10667	11.62886	12.58448	12	908	9	25	11	13	16	2	4.31279	2.07673	0.23980	3.35105	0.27740	19.20652	0.54821
Dissolved Oxygen (mg/l)	0																		
pH	0																		
Copper (ug/l)	75	48.69333	33.31111	64.07556	38	3652	2	580	24	57	578	33	4469.75604	66.85623	7.71989	6.95540	0.27740	55.37784	0.54821
Iron (ug/l)	8	264.62500	-10.77975	540.02975	153	2117	10	970	45.5	370	960	324.5	108519.69643	329.42328	116.46872	1.72694	0.75210	2.71862	1.48088
Zinc (ug/l)	75	6.58267	5.73698	7.42835	5	493.7	2.25	20	5	10	17.75	5	13.51017	3.67562	0.42442	1.28708	0.27740	2.80460	0.54821

Station: LM-H

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	77	111.58442	109.08654	114.08229	110	8592	65	158	107	115	93	8	121.11449	11.00520	1.25416	0.25505	0.27391	8.51709	0.54146
Ammonia (mg/l as N)	79	0.05127	0.04950	0.05304	0.05	4.05	0.05	0.1	0.05	0.05	0.05	0	0.00006	0.00790	0.00089	6.16128	0.27054	36.89509	0.53495
BOD (mg/l)	36	0.55556	0.46716	0.64395	0.5	20	0.5	2	0.5	0.5	1.5	0	0.06825	0.26125	0.04354	5.25194	0.39254	28.70606	0.76808
COD (mg/l)	79	7.18734	6.24094	8.13374	6.9	567.8	2.5	25	5	8.8	22.5	3.8	17.85266	4.22524	0.47538	1.58143	0.27054	4.14778	0.53495
Cyanide (mg/l)	78	0.00510	0.00492	0.00528	0.005	0.398	0.005	0.012	0.005	0.005	0.007	0	0.00000	0.00080	0.00009	8.58540	0.27221	74.79900	0.53818
Nitrate (mg/l as N)	79	0.29177	0.27250	0.31104	0.3	23.05	0.05	0.6	0.2	0.3	0.55	0.1	0.00740	0.08602	0.00968	0.50972	0.27054	1.45408	0.53495
Total Phosphorus (mg/l as P)	79	0.02120	0.01677	0.02564	0.015	1.675	0.015	0.14	0.015	0.015	0.125	0	0.00039	0.01981	0.00223	4.00438	0.27054	18.31075	0.53495
Total Solids (mg/l)	77	186.44156	182.42188	190.46124	185	14356	143	284	176	194	141	18	313.64457	17.71001	2.01824	2.14825	0.27391	11.58028	0.54146
Suspended Solids (mg/l)	9	9.00000	4.19967	13.80033	9	81	2	21	4	11	19	7	39.00000	6.24500	2.08167	0.74829	0.71714	0.27008	1.39971
Dissolved Solids (mg/l)	77	167.66883	162.82149	172.51618	171	12910.5	57	204	165	178	147	13	456.10270	21.35656	2.43381	-3.21444	0.27391	13.32206	0.54146
Sulfate (mg/l)	77	25.28571	24.87429	25.69714	25	1947	21	33	24	26	12	2	3.28571	1.81265	0.20657	0.67628	0.27391	3.66293	0.54146
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	74	20.67568	-5.45059	46.80194	5	1530	5	960	5	5	955	0	12716.66050	112.76817	13.10903	8.18199	0.27920	68.54574	0.55168
TOC (mg/l)	0																		
Hardness (mg/l)	77	141.44156	138.52896	144.35416	141	10891	112	176	136	148	64	12	164.67088	12.83242	1.46239	0.18762	0.27391	0.88128	0.54146
Chloride (mg/l)	77	12.61039	12.16222	13.05856	12	971	10	21	11	13	11	2	3.89884	1.97455	0.22502	1.58434	0.27391	4.08630	0.54146
Dissolved Oxygen (mg/l)	1	7.20000																	
pH	1	8.26000																	
Copper (ug/l)	79	28.16456	24.70357	31.62555	27	2225	2	77	15	38	75	23	238.75463	15.45169	1.73845	0.64084	0.27054	0.64631	0.53495
Iron (ug/l)	10	112.50000	40.33340	184.66660	81.5	1125	10	350	40	150	340	110	10177.16667	100.88194	31.90167	1.62526	0.68704	2.87487	1.33425
Zinc (ug/l)	79	14.44177	7.89630	20.98725	5.3	1140.9	2.25	180	5	10	177.75	5	853.95246	29.22247	3.28778	4.41516	0.27054	20.67199	0.53495

Station: LM-M

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	67	114.11940	110.14653	118.09228	110	7646	79	207	107	116	128	9	265.288557	16.287681	1.989857	3.536799	0.292836	17.684992	0.577996
Ammonia (mg/l as N)	69	0.05652	0.04912	0.06392	0.05	3.9	0.05	0.2	0.05	0.05	0.15	0	0.000949	0.030814	0.003710	4.577329	0.288737	19.517043	0.570095
BOD (mg/l)	31	0.59355	0.45406	0.73304	0.5	18.4	0.5	2.4	0.5	0.5	1.9	0	0.144624	0.380294	0.068303	4.286253	0.420536	18.726569	0.820803
COD (mg/l)	69	7.11304	6.41253	7.81356	6.5	490.8	2.5	20	5.6	8	17.5	2.4	8.503504	2.916077	0.351054	1.416457	0.288737	4.990832	0.570095
Cyanide (mg/l)	68	0.00515	0.00498	0.00532	0.005	0.35	0.005	0.009	0.005	0.005	0.004	0	0.000000	0.000697	0.000084	4.701595	0.290765	21.299669	0.574005
Nitrate (mg/l as N)	69	0.34275	0.27071	0.41480	0.3	23.65	0.05	2.7	0.3	0.4	2.65	0.1	0.089947	0.299911	0.036105	7.316693	0.288737	58.193770	0.570095
Total Phosphorus (mg/l as P)	68	0.01735	0.01456	0.02015	0.015	1.18	0.015	0.1	0.015	0.015	0.085	0	0.000133	0.011541	0.001400	6.124028	0.290765	41.108686	0.574005
Total Solids (mg/l)	67	199.77612	185.10591	214.44633	187	13385	162	514	180	194	352	14	3617.267300	60.143722	7.347725	4.308282	0.292836	18.436315	0.577996
Suspended Solids (mg/l)	67	7.59701	5.77166	9.42237	5	509	2	43	2	11	41	9	56.001809	7.483436	0.914247	2.271961	0.292836	7.290759	0.577996
Dissolved Solids (mg/l)	64	176.59375	167.80399	185.38351	172	11302	131	442	166.5	179	311	12.5	1238.213294	35.188255	4.398532	6.981295	0.299327	53.419011	0.590491
Sulfate (mg/l)	67	25.13433	23.42063	26.84803	25	1684	21	80	23	25	59	2	49.360470	7.025701	0.858326	7.420390	0.292836	58.591766	0.577996
TKN (mg/l as N)	69	0.24783	0.21302	0.28263	0.2	17.1	0.05	0.8	0.2	0.3	0.75	0.1	0.020988	0.144872	0.017441	1.777872	0.288737	3.695959	0.570095
E. coli (CFU/100ml)	68	69.07353	-4.46954	142.61659	5	4697	0.5	2000	5	5	1999.5	0	92314.016901	303.832218	36.845068	5.275555	0.290765	28.802472	0.574005
TOC (mg/l)	0																		
Hardness (mg/l)	67	144.91045	138.49566	151.32524	142	9709	106	303	136	147	197	11	691.628223	26.298825	3.212913	4.212855	0.292836	22.391904	0.577996
Chloride (mg/l)	67	13.38806	12.38150	14.39462	13	897	9	44	12	14	35	2	17.028946	4.126614	0.504146	6.333517	0.292836	47.184817	0.577996
Dissolved Oxygen (mg/l)	0																		
pH	0																		
Copper (ug/l)	69	2.81304	2.00205	3.62404	2	194.1	2	29	2	2	27	0	11.397033	3.375949	0.406417	7.110118	0.288737	55.067898	0.570095
Iron (ug/l)	69	187.24638	136.39534	238.09742	110	12920	10	1000	50	230	990	180	44808.335465	211.679795	25.483253	1.901727	0.288737	3.454645	0.570095
Zinc (ug/l)	69	7.08188	5.94546	8.21830	5	488.65	2.25	30	4.6	10	27.75	5.4	22.378821	4.730626	0.569500	2.008862	0.288737	7.430495	0.570095

Station: LM-OD

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	12	123.00000	104.89272	141.10728	110.5	1476	98	199	107	132.5	101	25.5	812.18182	28.49880	8.22690	1.99359	0.63730	4.27910	1.23225
Ammonia (mg/l as N)	12	0.05000			0.05	0.6	0.05	0.05	0.05	0.05	0	0	0.00000	0.00000	0.00000	0.00000			
BOD (mg/l)	7	0.50000			0.5	3.5	0.5	0.5	0.5	0.5	0	0	0.00000	0.00000	0.00000	0.00000			
COD (mg/l)	12	7.00000	5.00141	8.99859	6.3	84	2.5	13.2	5.65	9.35	10.7	3.7	9.89455	3.14556	0.90804	0.43085	0.63730	0.05325	1.23225
Cyanide (mg/l)	12	0.00500			0.005	0.06	0.005	0.005	0.005	0.005	0	0	0.00000	0.00000	0.00000	0.00000			
Nitrate (mg/l as N)	12	0.45833	0.12602	0.79065	0.3	5.5	0.2	2.1	0.25	0.4	1.9	0.15	0.27356	0.52303	0.15099	3.32122	0.63730	11.29423	1.23225
Total Phosphorus (mg/l as P)	12	0.02125	0.00749	0.03501	0.015	0.255	0.015	0.09	0.015	0.015	0.075	0	0.00047	0.02165	0.00625	3.46410	0.63730	12.00000	1.23225
Total Solids (mg/l)	12	194.00000	179.96422	208.03578	185	2328	176	255	181.5	200	79	18.5	488.00000	22.09072	6.37704	2.21046	0.63730	5.38052	1.23225
Suspended Solids (mg/l)	12	4.16667	1.83873	6.49460	2	50	2	14	2	5	12	3	13.42424	3.66391	1.05768	2.08957	0.63730	4.47571	1.23225
Dissolved Solids (mg/l)	12	184.75000	169.83910	199.66090	178.5	2217	162	249	171	187	87	16	550.75000	23.46806	6.77465	2.14350	0.63730	5.20750	1.23225
Sulfate (mg/l)	12	24.50000	23.27335	25.72665	25	294	22	29	23	25	7	2	3.72727	1.93061	0.55732	0.86413	0.63730	1.68043	1.23225
TKN (mg/l as N)	12	0.18333	0.15860	0.20807	0.2	2.2	0.1	0.2	0.2	0.2	0.1	0	0.00152	0.03892	0.01124	-2.05524	0.63730	2.64000	1.23225
E. coli (CFU/100ml)	11	14.13636	-0.69989	28.97262	10	155.5	0.5	80	5	10	79.5	5	487.70455	22.08403	6.65859	3.18274	0.66069	10.38221	1.27942
TOC (mg/l)	1	2.40000					2.4	2.4	2.4										
Hardness (mg/l)	12	146.08333	119.60288	172.56379	143	1753	98	233	109	166.5	135	57.5	1736.99242	41.67724	12.03118	0.80656	0.63730	0.20764	1.23225
Chloride (mg/l)	12	13.16667	11.56769	14.76565	13.5	158	9	19	11.5	14	10	2.5	6.33333	2.51661	0.72648	0.76050	0.63730	1.93916	1.23225
Dissolved Oxygen (mg/l)	0																		
pH	0																		
Copper (ug/l)	12	34.75000	17.08360	52.41640	31	417	2	91	18	34	89	16	773.11364	27.80492	8.02659	1.39468	0.63730	1.35684	1.23225
Iron (ug/l)	12	154.00000	50.77709	257.22291	84.5	1848	36	540	45	200	504	155	26393.63636	162.46118	46.89850	1.70949	0.63730	2.13496	1.23225
Zinc (ug/l)	12	3.63333	2.21536	5.05131	2.25	43.6	2.25	8.3	2.25	4.95	6.05	2.7	4.98061	2.23173	0.64424	1.36063	0.63730	0.48525	1.23225

Station: LM-W

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	75	112.04000	109.68620	114.39380	112	8403	69	148	108	116	79	8	104.66054	10.23037	1.18130	-0.26899	0.27740	6.01142	0.54821
Ammonia (mg/l as N)	75	0.05200	0.04973	0.05427	0.05	3.9	0.05	0.1	0.05	0.05	0.05	0	0.00010	0.00986	0.00114	4.79122	0.27740	21.52936	0.54821
BOD (mg/l)	36	0.58889	0.48762	0.69016	0.5	21.2	0.5	1.6	0.5	0.5	1.1	0	0.08959	0.29931	0.04989	3.15960	0.39254	8.47998	0.76808
COD (mg/l)	75	6.68133	5.86548	7.49719	6	501.1	2.5	19.2	5	8	16.7	3	12.57397	3.54598	0.40945	1.68185	0.27740	3.97674	0.54821
Cyanide (mg/l)	74	0.00508	0.00497	0.00519	0.005	0.376	0.005	0.009	0.005	0.005	0.004	0	0.00000	0.00049	0.00006	7.39247	0.27920	58.18770	0.55168
Nitrate (mg/l as N)	75	0.31333	0.29183	0.33484	0.3	23.5	0.2	0.6	0.2	0.4	0.4	0.2	0.00874	0.09348	0.01079	0.84902	0.27740	0.95121	0.54821
Total Phosphorus (mg/l as P)	75	0.01720	0.01510	0.01930	0.015	1.29	0.015	0.07	0.015	0.015	0.055	0	0.00008	0.00913	0.00105	4.57986	0.27740	21.59560	0.54821
Total Solids (mg/l)	75	190.85333	184.71922	196.98744	186	14314	118	324	178	198	206	20	710.80252	26.66088	3.07853	2.36142	0.27740	10.01896	0.54821
Suspended Solids (mg/l)	11	22.00000	-12.48286	56.48286	7	242	2	176	2	12	174	10	2634.60000	51.32835	15.47608	3.25829	0.66069	10.71215	1.27942
Dissolved Solids (mg/l)	74	173.14865	168.38210	177.91520	173.5	12813	82	284	166	181	202	15	423.27897	20.57374	2.39165	0.79835	0.27920	15.67614	0.55168
Sulfate (mg/l)	74	25.87838	25.39642	26.36033	26	1915	22	31	24	27	9	3	4.32747	2.08026	0.24183	0.12886	0.27920	-0.19765	0.55168
TKN (mg/l as N)	75	0.23747	0.21462	0.26032	0.2	17.81	0.05	0.8	0.2	0.3	0.75	0.1	0.00986	0.09931	0.01147	2.61215	0.27740	13.17689	0.54821
E. coli (CFU/100ml)	72	10.62500	2.22627	19.02373	5	765	5	300	5	5	295	0	1277.42077	35.74102	4.21212	7.79133	0.28290	62.94784	0.55883
TOC (mg/l)	2	8.25000	7.61469	8.88531	8.25	16.5	8.2	8.3					0.1	0.00500	0.07071	0.05000			
Hardness (mg/l)	75	143.08000	140.27771	145.88229	142	10731	110	192	136	150	82	14	148.34486	12.17969	1.40639	0.68659	0.27740	3.14283	0.54821
Chloride (mg/l)	75	12.89333	12.43540	13.35127	12	967	10	20	12	14	10	2	3.96144	1.99034	0.22982	1.39795	0.27740	2.06361	0.54821
Dissolved Oxygen (mg/l)	0																		
pH	0																		
Copper (ug/l)	74	26.37027	22.62349	30.11705	23	1951.4	4	100	14	34	96	20	261.53801	16.17214	1.87997	1.62402	0.27920	5.03546	0.55168
Iron (ug/l)	73	220.01370	143.42178	296.60562	110	16061	10	1900	49	240	1890	191	107763.62481	328.27370	38.42153	3.34293	0.28103	12.75608	0.55522
Zinc (ug/l)	73	6.05685	5.13422	6.97948	5	442.15	2.25	20	5	5.3	17.75	0.3	15.63724	3.95440	0.46283	2.05420	0.28103	4.74765	0.55522

Station: M-114

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	77	183.18182	174.25990	192.10373	184	14105	107	276	154	213	169	59	1545.15072	39.30841	4.47961	0.00586	0.27391	-0.78865	0.54146
Ammonia (mg/l as N)	77	0.15065	0.11493	0.18637	0.1	11.6	0.05	0.9	0.05	0.2	0.85	0.15	0.02477	0.15738	0.01794	2.50356	0.27391	7.77374	0.54146
BOD (mg/l)	37	3.78919	2.80824	4.77014	2.9	140.2	0.5	13	1.9	5	12.5	3.1	8.65599	2.94211	0.48368	1.60588	0.38759	2.12487	0.75872
COD (mg/l)	77	28.63896	26.86945	30.40847	28	2205.2	9	58	24.9	32	49	7.1	60.77978	7.79614	0.88845	0.69680	0.27391	2.16327	0.54146
Cyanide (mg/l)	76	0.00564	0.00525	0.00604	0.005	0.429	0.005	0.016	0.005	0.011	0	0.00000	0.00174	0.00020	3.88205	0.27564	18.17156	0.54480	
Nitrate (mg/l as N)	77	3.26364	2.88397	3.64331	2.8	251.3	1	8.6	2.2	4.2	7.6	2	2.79813	1.67276	0.19063	1.35147	0.27391	1.74982	0.54146
Total Phosphorus (mg/l as P)	77	0.24149	0.20832	0.27466	0.22	18.595	0.015	0.97	0.16	0.28	0.955	0.12	0.02136	0.14614	0.01665	2.65681	0.27391	9.73273	0.54146
Total Solids (mg/l)	77	490.57143	474.12258	507.02027	495	37774	301	755	442	538	454	96	5252.01128	72.47076	8.25881	0.30267	0.27391	1.60059	0.54146
Suspended Solids (mg/l)	77	66.40260	55.85252	76.95268	57	5113	2	288	34	89	286	55	2160.55947	46.48182	5.29709	1.70139	0.27391	5.80117	0.54146
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	76	1.42237	1.33300	1.51174	1.4	108.1	0.8	2.6	1.2	1.6	1.8	0.4	0.15296	0.39110	0.04486	0.91386	0.27564	0.79107	0.54480
E. coli (CFU/100ml)	73	2721.02740	71.25848	5370.79631	330	198635	5	89000	110	860	88995	750	128979964.55479	11356.93465	1329.22866	6.73472	0.28103	48.74442	0.55522
TOC (mg/l)	0																		
Hardness (mg/l)	77	270.76623	258.20498	283.32748	272	20849	164	400	230	313	236	83	3062.81306	55.34269	6.30688	-0.02221	0.27391	-0.49144	0.54146
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	57	10.10053	9.56582	10.63523	10.36	575.73	5	13.73	8.4	11.46	8.73	3.06	4.06107	2.01521	0.26692	-0.22087	0.31633	-0.56911	0.62313
pH	59	7.93644	7.85549	8.01739	7.91	468.25	7.17	8.62	7.76	8.14	1.45	0.38	0.09650	0.31064	0.04044	0.04453	0.31118	0.05508	0.61326
Copper (ug/l)	77	6.52208	5.53924	7.50491	6	502.2	2	35	5	7	33	2	18.75069	4.33021	0.49347	3.89210	0.27391	24.10810	0.54146
Iron (ug/l)	11	2320.00000	1239.73174	3400.26826	2300	25520	670	5100	790	4000	4430	3210	2585660.00000	1607.99876	484.82987	0.44808	0.66069	-1.29949	1.27942
Zinc (ug/l)	77	17.34286	15.50433	19.18138	20	1335.4	6.3	50	10	20	43.7	10	65.61353	8.10022	0.92311	1.18536	0.27391	2.40322	0.54146

Station: M-129

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	74	188.64865	179.62799	197.66931	192	13960	100	322	158	212	222	54	1515.98445	38.93564	4.52618	0.38389	0.27920	0.96185	0.55168
Ammonia (mg/l as N)	74	0.16757	0.12929	0.20584	0.1	12.4	0.05	1	0.05	0.2	0.95	0.15	0.02729	0.16520	0.01920	2.60414	0.27920	9.19999	0.55168
BOD (mg/l)	36	3.30833	2.57021	4.04646	2.8	119.1	0.5	8.7	1.6	3.8	8.2	2.2	4.75907	2.18153	0.36359	1.23167	0.39254	1.13042	0.76808
COD (mg/l)	73	27.51781	25.84503	29.19059	27.5	2008.8	5	57	24.9	31	52	6.1	51.40232	7.16954	0.83913	0.34022	0.28103	3.91160	0.55522
Cyanide (mg/l)	73	0.00573	0.00534	0.00611	0.005	0.418	0.005	0.014	0.005	0.009	0	0.00000	0.00164	0.00019	3.02082	0.28103	10.62343	0.55522	
Nitrate (mg/l as N)	74	3.35946	2.93871	3.78021	2.8	248.6	0.3	8.7	2.1	4.3	8.4	2.2	3.29806	1.81606	0.21111	1.06892	0.27920	0.95854	0.55168
Total Phosphorus (mg/l as P)	74	0.22986	0.20484	0.25489	0.22	17.01	0.03	0.75	0.17	0.28	0.72	0.11	0.01166	0.10800	0.01255	1.62800	0.27920	6.45371	0.55168
Total Solids (mg/l)	74	497.87838	479.62124	516.13552	489.5	36843	351	863	453	544	512	91	6209.88912	78.80285	9.16065	1.37503	0.27920	5.16235	0.55168
Suspended Solids (mg/l)	74	59.95946	50.70107	69.21785	51	4437	5	184	34	78	179	44	1596.94354	39.96178	4.64546	1.23865	0.27920	1.62540	0.55168
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	74	1.44459	1.35026	1.53893	1.4	106.9	0.6	2.4	1.2	1.7	1.8	0.5	0.16579	0.40718	0.04733	0.41989	0.27920	-0.32036	0.55168
E. coli (CFU/100ml)	72	2377.98611	586.38307	4169.58915	340	171215	5	59000	150	1500	58995	1350	58128676.52093	7624.21645	898.52253	6.26714	0.28290	44.32412	0.55883
TOC (mg/l)	0																		
Hardness (mg/l)	74	276.93243	264.28444	289.58042	280.5	20493	158	437	240	308	279	68	2980.31044	54.59222	6.34622	0.11788	0.27920	0.15083	0.55168
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	56	10.10786	9.64262	10.57310	10.095	566.04	6.67	14.37	8.765	11.14	7.7	2.375	3.01804	1.73725	0.23215	0.22939	0.31900	-0.17043	0.62826
pH	58	7.88207	7.80753	7.95661	7.855	457.16	7.01	8.57	7.7	8.09	1.56	0.39	0.08037	0.28349	0.03722	-0.23896	0.31372	0.83430	0.61814
Copper (ug/l)	75	6.14000	5.51674	6.76326	6	460.5	2	15	4.5	7.7	13	3.2	7.33811	2.70889	0.31280	0.76668	0.27740	0.98591	0.54821
Iron (ug/l)	75	2460.40000	1952.12437	2968.67563	1800	184530	360	16000	1100	3200	15640	2100	4880274.16216	2209.13426	255.08885	3.50176	0.27740	18.59157	0.54821
Zinc (ug/l)	75	16.68933	14.76263	18.61604	15	1251.7	5.9	50	10	20	44.1	10	70.12556	8.37410	0.96696	1.37829	0.27740	2.54323	0.54821

Station: MC-18

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	20	216.45000	198.90794	233.99206	215.5	4329	116	291	207.5	234	175	26.5	1404.89211	37.48189	8.38121	-0.69465	0.51210	2.06752	0.99238
Ammonia (mg/l as N)	20	0.06500	0.04339	0.08661	0.05	1.3	0.05	0.2	0.05	0.05	0.15	0	0.00213	0.04617	0.01032	2.88794	0.51210	7.03704	0.99238
BOD (mg/l)	19	1.04211	0.62863	1.45558	0.5	19.8	0.5	3.4	0.5	1.7	2.9	1.2	0.73591	0.85785	0.19680	1.55454	0.52377	1.77624	1.01427
COD (mg/l)	19	11.32105	8.00809	14.63402	9	215.1	2.5	30.1	7	14	27.6	7	47.24620	6.87359	1.57691	1.68290	0.52377	2.71504	1.01427
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	20	2.58750	1.76720	3.40780	2.55	51.75	0.05	5.4	0.95	4.1	5.35	3.15	3.07207	1.75273	0.39192	-0.16277	0.51210	-1.35025	0.99238
Total Phosphorus (mg/l as P)	20	0.09700	0.03703	0.15697	0.055	1.94	0.015	0.56	0.035	0.1	0.545	0.065	0.01642	0.12813	0.02865	2.94105	0.51210	9.39696	0.99238
Total Solids (mg/l)	20	380.00000	337.27084	422.72916	355.5	7600	302	709	333	389.5	407	56.5	8335.47368	91.29882	20.41504	2.89106	0.51210	9.27291	0.99238
Suspended Solids (mg/l)	20	18.35000	3.21330	33.48670	9.5	367	2	150	5	17	148	12	1046.02895	32.34237	7.23197	3.91307	0.51210	16.33040	0.99238
Dissolved Solids (mg/l)	19	338.89474	312.79829	364.99118	331	6439	244	468	305	354	224	49	2931.54386	54.14373	12.42142	0.70395	0.52377	0.88565	1.01427
Sulfate (mg/l)	7	30.00000	24.27392	35.72608	31	210	18	38	28	34	20	6	38.33333	6.19139	2.34013	-1.13847	0.79373	2.57317	1.58745
TKN (mg/l as N)	7	0.51429	0.14656	0.88202	0.4	3.6	0.3	1.4	0.3	0.5	1.1	0.2	0.15810	0.39761	0.15028	2.45850	0.79373	6.21510	1.58745
E. coli (CFU/100ml)	20	545.50000	-355.02566	1446.02566	100	10910	5	8700	55	130	8695	75	3702318.15789	1924.14089	430.25098	4.43648	0.51210	19.76854	0.99238
TOC (mg/l)	6	3.41667	0.69669	6.13664	2.5	20.5	1.8	8.6	2	3.1	6.8	1.1	6.71767	2.59185	0.10512	2.23546	0.84515	5.16322	1.74078
Hardness (mg/l)	20	272.95000	251.02210	294.87790	275	5459	172	359	255.5	303	187	47.5	2195.20789	46.85305	10.47666	-0.45092	0.51210	0.36015	0.99238
Chloride (mg/l)	7	22.14286	16.95414	27.33158	22	155	14	32	18	24	18	6	31.47619	5.61036	2.12052	0.47308	0.79373	1.26841	1.58745
Dissolved Oxygen (mg/l)	16	10.77250	9.57544	11.96956	10.51	172.36	7.18	14.6	8.825	12.41	7.42	3.585	5.04666	2.24648	0.56162	0.28371	0.56431	-0.80879	1.09077
pH	16	8.03813	7.90364	8.17261	8.03	128.61	7.48	8.5	7.895	8.22	1.02	0.325	0.06370	0.25238	0.06310	-0.26847	0.56431	0.32042	1.09077
Copper (ug/l)	7	2.78571	0.86314	4.70829	2	19.5	2	7.5	2	2	5.5	0	4.32143	2.07880	0.78571	2.64575	0.79373	7.00000	1.58745
Iron (ug/l)	7	1074.28571	-273.41963	2421.99106	410	7520	290	4300	310	1200	4010	890	2123495.23810	1457.22175	550.77805	2.40707	0.79373	5.92762	1.58745
Zinc (ug/l)	7	11.50000	-0.64636	23.64636	5.9	80.5	2.25	37	2.25	22	34.75	19.75	172.48583	13.13339	4.96395	1.60056	0.79373	1.71107	1.58745

Station: MC-35

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std. Err.	Kurtosis	Std. Err.
Alkalinity (mg/l)	21	233.14286	215.14494	251.14077	236	4896	104	289	224	249	185	25	1563.32857	39.53895	8.62811	-1.71883	0.50119	5.13035	0.97194
Ammonia (mg/l as N)	21	0.06429	0.03921	0.08937	0.05	1.35	0.05	0.3	0.05	0.05	0.25	0	0.00304	0.05510	0.01202	4.32390	0.50119	19.13495	0.97194
BOD (mg/l)	19	1.14737	0.39631	1.89843	0.5	21.8	0.5	7.3	0.5	1.3	6.8	0.8	2.42819	1.55826	0.35749	3.77624	0.52377	15.32136	1.01427
COD (mg/l)	20	10.81000	3.65580	17.96420	6.85	216.2	2.5	71.7	3.75	9.6	69.2	5.85	233.67042	15.28628	3.41812	3.67476	0.51210	14.71916	0.99238
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	21	2.17143	1.53694	2.80591	2.7	45.6	0.05	4.1	0.7	3	4.05	2.3	1.94289	1.39388	0.30417	-0.29855	0.50119	-1.40525	0.97194
Total Phosphorus (mg/l as P)	21	0.06833	-0.01078	0.14745	0.015	1.435	0.015	0.82	0.015	0.04	0.805	0.025	0.03021	0.17380	0.03793	4.45185	0.50119	20.13079	0.97194
Total Solids (mg/l)	21	415.38095	351.01984	479.74206	384	8723	337	1006	350	419	669	69	19991.84762	141.39253	30.85438	3.98591	0.50119	17.09578	0.97194
Suspended Solids (mg/l)	21	41.23810	-34.99087	117.46706	4	866	2	772	2	6	770	4	28044.39048	167.46459	36.54377	4.58022	0.50119	20.98489	0.97194
Dissolved Solids (mg/l)	20	361.45000	338.52032	384.37968	360.5	7229	230	447	338.5	384.5	217	46	2400.36579	48.99353	10.95529	-0.53362	0.51210	1.80815	0.99238
Sulfate (mg/l)	7	36.85714	26.03963	47.67466	39	258	15	52	32	44	37	12	136.80952	11.69656	4.42088	-0.96197	0.79373	1.69988	1.58745
TKN (mg/l as N)	7	1.04286	-0.26601	2.35172	0.3	7.3	0.2	3.8	0.2	2.2	3.6	2	2.00286	1.41522	0.53490	1.65309	0.79373	1.75498	1.58745
E. coli (CFU/100ml)	21	1525.23810	-1030.65378	4081.12997	220	32030	40	26000	100	460	25960	360	31527596.19048	5614.94401	1225.28123	4.56365	0.50119	20.87757	0.97194
TOC (mg/l)	6	3.11667	0.47141	5.76192	2.3	18.7	1.4	8.2	2	2.5	6.8	0.5	6.35367	2.52065	1.02905	2.31398	0.84515	5.52514	1.74078
Hardness (mg/l)	21	288.28571	263.86287	312.70856	298	6054	164	372	256	324	208	68	2878.71429	53.65365	11.70819	-0.82801	0.50119	0.29353	0.97194
Chloride (mg/l)	7	21.57143	14.49052	28.65233	23	151	10	35	17	24	25	7	58.61905	7.65631	2.89381	0.40539	0.79373	1.52218	1.58745
Dissolved Oxygen (mg/l)	17	10.97235	10.07698	11.86772	11.1	186.53	8.05	13.64	9.72	12.52	5.59	2.8	3.03264	1.74145	0.42236	-0.25036	0.54975	-1.07270	1.06320
pH	17	7.98294	7.82799	8.13789	8.05	135.71	7.2	8.33	7.92	8.19	1.13	0.27	0.09082	0.30137	0.07309	-1.79025	0.54975	3.04365	1.06320
Copper (ug/l)	8	4.40000	1.04906	7.75094	2	35.2	2	13	2	6.1	11	4.1	16.06571	4.00821	1.41711	1.76517	0.75210	2.70924	1.48088
Iron (ug/l)	8	2250.87500	-2731.70332	7233.45332	140	18007	67	17000	110	220	16933	110	35520083.26786	5959.87276	2107.13322	2.82781	0.75210	7.99737	1.48088
Zinc (ug/l)	12	10.21250	-2.08073	22.50573	5	122.55	2.25	71	2.25	7.65	68.75	5.4	374.35097	19.34815	5.58533	3.33688	0.63730	11.34525	1.23225

Station: MS-1																			
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Std.Err. Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	79	176.50633	167.60235	185.41031	171	13944	86	269	150	198	183	48	1580.22752	39.75208	4.47246	0.33372	0.27054	0.06899	0.53495
Ammonia (mg/l as N)	79	0.09937	0.08043	0.11830	0.05	7.85	0.05	0.4	0.05	0.1	0.35	0.05	0.00715	0.08454	0.00951	1.73469	0.27054	2.09062	0.53495
BOD (mg/l)	36	1.76389	1.28654	2.24124	1.4	63.5	0.5	6.6	1	2	6.1	1	1.99037	1.41081	0.23513	1.99493	0.39254	4.22101	0.76808
COD (mg/l)	1	14.00000				14	14	14											
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	79	3.43101	3.04824	3.81379	3	271.05	0.05	7.7	2.3	4.3	7.65	2	2.92034	1.70890	0.19227	0.55650	0.27054	-0.13550	0.53495
Total Phosphorus (mg/l as P)	79	0.12272	0.09326	0.15219	0.08	9.695	0.015	0.96	0.05	0.14	0.945	0.09	0.01730	0.13154	0.01480	3.80503	0.27054	20.82634	0.53495
Total Solids (mg/l)	79	382.21519	360.38663	404.04375	363	30195	276	1058	328	415	782	87	9497.32489	97.45422	10.96446	4.46118	0.27054	29.28285	0.53495
Suspended Solids (mg/l)	79	28.87342	15.78764	41.95920	14	2281	2	496	7	33	494	26	3413.11198	58.42185	6.57297	6.82802	0.27054	53.70989	0.53495
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	1	0.05000																	
E. coli (CFU/100ml)	77	231.55844	2.83622	460.28067	40	17830	5	8500	5	100	8495	95	1015480.43404	1007.71049	114.83927	7.63504	0.27391	61.85599	0.54146
TOC (mg/l)	0																		
Hardness (mg/l)	79	247.07595	234.54593	259.60597	240	19519	98	390	211	286	292	75	3129.35313	55.94062	6.29381	0.14630	0.27054	0.18330	0.53495
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	61	11.02525	10.36031	11.69019	10.26	672.54	7.52	20.11	9.5	12.48	12.59	2.98	6.74072	2.59629	0.33242	1.47979	0.30627	2.88725	0.60384
pH	62	8.01516	7.91834	8.11198	8.02	496.94	7	9.11	7.83	8.27	2.11	0.44	0.14535	0.38124	0.04842	-0.04222	0.30390	0.56586	0.59929
Copper (ug/l)	9	2.95556	1.81666	4.09445	2	26.6	2	5.3	2	4	3.3	2	2.19528	1.48165	0.49388	1.07105	0.71714	-0.86900	1.39971
Iron (ug/l)	8	231.12500	124.40262	337.84738	235	1849	39	390	130	345	351	215	16295.83929	127.65516	45.13291	-0.17314	0.75210	-1.21822	1.48088
Zinc (ug/l)	8	3.34375	0.75744	5.93006	2.25	26.75	2.25	11	2.25	2.25	8.75	0	9.57031	3.09359	1.09375	2.82843	0.75210	8.00000	1.48088

Station: MS-28																			
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Std.Err. Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	80	210.92500	201.74130	220.10870	217.5	16874	123	287	188	240.5	164	52.5	1703.03228	41.26781	4.61388	-0.36872	0.26891	-0.44154	0.53179
Ammonia (mg/l as N)	80	0.08750	0.07020	0.10480	0.05	7	0.05	0.4	0.05	0.075	0.35	0.025	0.00604	0.07775	0.00869	2.17052	0.26891	4.08009	0.53179
BOD (mg/l)	40	2.35000	1.83789	2.86211	2.05	94	0.5	6.3	1.15	3.55	5.8	2.4	2.56410	1.60128	0.25318	0.78322	0.37378	-0.14823	0.73260
COD (mg/l)	80	19.07625	17.51154	20.64096	18	1526.1	7.6	43.2	14	22.7	35.6	8.7	49.43702	7.03115	0.78611	0.85120	0.26891	0.89971	0.53179
Cyanide (mg/l)	13	0.00546	0.00474	0.00619	0.005	0.071	0.005	0.009	0.005	0.005	0.004	0	0.00000	0.00120	0.00033	2.68240	0.61634	6.96429	1.19087
Nitrate (mg/l as N)	80	3.31750	2.82958	3.80542	2.7	265.4	0.6	9.4	1.65	4.35	8.8	2.7	4.80703	2.19249	0.24513	1.08367	0.26891	0.24507	0.53179
Total Phosphorus (mg/l as P)	80	0.15631	0.13273	0.17990	0.14	12.505	0.015	0.56	0.08	0.19	0.545	0.11	0.01123	0.10598	0.01185	1.58815	0.26891	3.21827	0.53179
Total Solids (mg/l)	79	522.06329	498.99926	545.12732	491	41243	330	896	458	581	566	123	10602.82928	102.97004	11.58503	0.95321	0.27054	1.42813	0.53495
Suspended Solids (mg/l)	79	37.67089	26.88705	48.45472	24	2976	2	310	10	40	308	30	2317.91594	48.14474	5.41671	3.16037	0.27054	13.33413	0.53495
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	75	1095.13333	354.86058	1835.40608	200	82135	5	18000	40	630	17995	590	10352116.87387	3217.47057	371.52150	4.28412	0.27740	18.03997	0.54821
TOC (mg/l)	0																		
Hardness (mg/l)	80	312.27500	297.43009	327.11991	317	24982	137	481	278	349	344	71	4449.82215	66.70699	7.45807	-0.23167	0.26891	0.35737	0.53179
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	63	10.65222	10.15384	11.15060	10.59	671.09	7	15.1	8.83	11.8	8.1	2.97	3.91603	1.97890	0.24932	0.36960	0.30159	-0.40115	0.59484
pH	64	7.98547	7.89685	8.07409	8.03	511.07	7.04	8.64	7.8	8.235	1.6	0.435	0.12586	0.35477	0.04435	-0.51242	0.29933	0.09819	0.59049
Copper (ug/l)	16	4.84375	2.98000	6.70750	4.4	77.5	2	15	2	6	13	4	12.23329	3.49761	0.87440	1.87056	0.56431	4.11066	1.09077
Iron (ug/l)	8	575.50000	-9.83185	1160.83185	350	4604	74	2200	140	675	2126	535	490196.28571	700.14019	247.53694	2.21002	0.75210	5.24523	1.48088
Zinc (ug/l)	16	11.93125	5.74553	18.11697	9.25	190.9	2.25	50	6.3	10	47.75	3.7	134.75663	11.60847	2.90212	2.66449	0.56431	8.08132	1.09077

Station: MS-36																			
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	79	220.87342	211.10426	230.64257	228	17449	109	299	190	250	190	60	1902.24018	43.61468	4.90703	-0.59036	0.27054	0.00259	0.53495
Ammonia (mg/l as N)	79	0.10506	0.08449	0.12564	0.05	8.3	0.05	0.5	0.05	0.1	0.45	0.05	0.00844	0.09185	0.01033	2.03720	0.27054	4.50230	0.53495
BOD (mg/l)	38	2.57105	1.84507	3.29703	1.9	97.7	0.5	11	1.1	3.4	10.5	2.3	4.87833	2.20869	0.35830	1.81109	0.38282	4.39694	0.74970
COD (mg/l)	79	19.22278	17.16680	21.27877	17.8	1518.6	7	68	14	22	61	8	84.25383	9.17899	1.03272	2.61047	0.27054	10.96154	0.53495
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	79	2.87658	2.31763	3.43553	2.5	227.25	0.05	9.6	0.8	4	9.55	3.2	6.22723	2.49544	0.28076	0.90342	0.27054	-0.09176	0.53495
Total Phosphorus (mg/l as P)	79	0.13880	0.11364	0.16396	0.11	10.965	0.015	0.61	0.07	0.17	0.595	0.1	0.01262	0.11232	0.01264	2.04785	0.27054	5.62413	0.53495
Total Solids (mg/l)	78	461.64103	449.46786	473.81419	456.5	36008	338	579	428	507	241	79	2915.06427	53.99134	6.11331	0.05464	0.27221	-0.45354	0.53818
Suspended Solids (mg/l)	78	34.74359	26.06426	43.42292	23.5	2710	2	272	13	46	270	33	1481.88145	38.49521	4.35872	3.54012	0.27221	18.45838	0.53818
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	79	0.95190	0.86383	1.03996	0.8	75.2	0.3	1.9	0.6	1.2	1.6	0.6	0.15458	0.39317	0.04423	0.51958	0.27054	-0.52388	0.53495
E. coli (CFU/100ml)	76	4056.51316	-204.57752	8317.60384	255	308295	5	120000	90	665	119995	575	347721810.67983	18647.30036	2138.99205	5.81329	0.27564	33.53452	0.54480
TOC (mg/l)	0																		
Hardness (mg/l)	79	301.49367	288.90143	314.08591	314	23818	148	404	264	337	256	73	3160.50957	56.21841	6.32507	-0.68186	0.27054	0.24048	0.53495
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	61	10.41246	9.87519	10.94973	10.56	635.16	5.67	16.04	8.87	11.98	10.37	3.11	4.40076	2.09780	0.26860	0.12295	0.30627	0.05272	0.60384
pH	63	7.92619	7.84155	8.01083	8.02	499.35	6.9	8.52	7.75	8.18	1.62	0.43	0.11295	0.33608	0.04234	-0.80061	0.30159	0.32159	0.59484
Copper (ug/l)	76	4.15789	3.56616	4.74963	4	316	2	13	2	5	11	3	6.70567	2.58953	0.29704	1.52937	0.27564	2.33189	0.54480
Iron (ug/l)	10	597.00000	302.53216	891.46784	510	5970	170	1500	280	760	1330	480	169445.55556	411.63765	130.17125	1.24376	0.68704	1.43177	1.33425
Zinc (ug/l)	77	12.46234	10.44146	14.48322	10	959.6	2.25	51	10	12	48.75	2	79.27488	8.90364	1.01466	2.48382	0.27391	7.62988	0.54146

Station: MS-99																			
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	79	251.67089	241.17511	262.16666	254	19882	115	326	219	285	211	66	2195.73645	46.85869	5.27201	-0.71310	0.27054	0.25973	0.53495
Ammonia (mg/l as N)	79	0.08101	0.06070	0.10133	0.05	6.4	0.05	0.7	0.05	0.05	0.65	0	0.00822	0.09069	0.01020	4.72758	0.27054	28.16995	0.53495
BOD (mg/l)	38	1.23684	0.95612	1.51756	1	47	0.5	4.6	0.5	1.7	4.1	1.2	0.72942	0.85406	0.13855	1.79008	0.38282	5.11246	0.74970
COD (mg/l)	79	16.57848	14.32919	18.82777	14	1309.7	6	68	10.7	20.6	62	9.9	100.84248	10.04204	1.12982	2.70893	0.27054	10.01652	0.53495
Cyanide (mg/l)	79	0.00527	0.00508	0.00545	0.005	0.416	0.005	0.009	0.005	0.005	0.004	0	0.00000	0.00081	0.00009	3.15834	0.27054	9.31260	0.53495
Nitrate (mg/l as N)	79	3.88481	2.96194	4.80768	3.4	306.9	0.05	31	1.2	4.9	30.95	3.7	16.97586	4.12018	0.46356	3.87879	0.27054	23.42568	0.53495
Total Phosphorus (mg/l as P)	79	0.17285	0.14249	0.20321	0.14	13.655	0.015	0.79	0.08	0.22	0.775	0.14	0.01837	0.13554	0.01525	1.99068	0.27054	5.42178	0.53495
Total Solids (mg/l)	79	480.07595	463.63587	496.51602	465	37926	371	904	437	511	533	74	5387.14800	73.39719	8.25783	2.86591	0.27054	13.77420	0.53495
Suspended Solids (mg/l)	79	25.81013	14.18885	37.43140	10	2039	2	396	5	22	394	17	2691.89938	51.88352	5.83735	5.21182	0.27054	33.84049	0.53495
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	1	0.60000				0.6	0.6	0.6											
E. coli (CFU/100ml)	75	561.13333	310.05337	812.21330	250	42085	5	7500	60	440	7495	380	1190884.84685	1091.27670	126.00978	4.24931	0.27740	22.54612	0.54821
TOC (mg/l)	0																		
Hardness (mg/l)	79	335.16456	323.06643	347.26269	344	26478	166	488	309	369	322	60	2917.34437	54.01245	6.07687	-0.57834	0.27054	1.21143	0.53495
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	61	10.08426	9.54979	10.61873	9.83	615.14	4.21	16.03	8.55	11.32	11.82	2.77	4.35502	2.08687	0.26720	0.23994	0.30627	0.66765	0.60384
pH	62	7.91710	7.83273	8.00147	8.005	490.86	7.07	8.6	7.76	8.14	1.53	0.38	0.11038	0.33223	0.04219	-0.35815	0.30390	-0.15481	0.59929
Copper (ug/l)	10	3.32000	1.47117	5.16883	2	33.2	2	10	2	4.5	8	2.5	6.67956	2.58448	0.81729	2.30298	0.68704	5.53221	1.33425
Iron (ug/l)	9	446.22222	-75.14410	967.58854	190	4016	66	2200	160	230	2134	70	460053.44444	678.27240	226.09080	2.69655	0.71714	7.46798	1.39971
Zinc (ug/l)	10	5.14000	2.70692	7.57308	5.05	51.4	2.25	12	2.25	5.2	9.75	2.95	11.56822	3.40121	1.07556	1.20395	0.68704	0.63746	1.33425

Station: MU-20

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std. Err.	Skewness	Std. Err.
Alkalinity (mg/l)	75	131.14667	122.58767	139.70566	125	9836	69	259	112	148	190	36	1383.85658	37.20022	4.29551	1.04943	0.27740	2.23579	0.54821
Ammonia (mg/l as N)	75	0.10267	0.08454	0.12080	0.05	7.7	0.05	0.4	0.05	0.1	0.35	0.05	0.00621	0.07880	0.00910	1.74019	0.27740	2.64354	0.54821
BOD (mg/l)	37	1.34865	1.07669	1.62061	1.1	49.9	0.5	3.3	0.5	1.7	2.8	1.2	0.66535	0.81569	0.13410	0.87092	0.38759	-0.05720	0.75872
COD (mg/l)	0																		
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	75	1.04333	0.88793	1.19874	0.9	78.25	0.05	3.4	0.6	1.4	3.35	0.8	0.45624	0.67545	0.07799	1.24415	0.27740	1.92235	0.54821
Total Phosphorus (mg/l as P)	75	0.12400	0.10086	0.14714	0.1	9.3	0.04	0.82	0.09	0.12	0.78	0.03	0.01012	0.10058	0.01161	5.00707	0.27740	31.64667	0.54821
Total Solids (mg/l)	75	266.76000	251.81927	281.70073	255	20007	172	594	232	276	422	44	4216.86054	64.93736	7.49832	2.49000	0.27740	9.02970	0.54821
Suspended Solids (mg/l)	75	30.90667	23.72283	38.09050	23	2318	2	200	15	35	198	20	974.89658	31.22333	3.60536	3.21690	0.27740	13.42423	0.54821
Dissolved Solids (mg/l)	21	208.42857	188.66790	228.18924	207	4377	144	298	168	228	154	60	1884.55714	43.41149	9.47316	0.50151	0.50119	-0.11805	0.97194
Sulfate (mg/l)	21	23.85714	20.36878	27.34551	24	501	11	42	19	29	31	10	58.72857	7.66346	1.67230	0.27510	0.50119	0.17853	0.97194
TKN (mg/l as N)	21	0.70952	0.57304	0.84601	0.6	14.9	0.4	1.6	0.6	0.8	1.2	0.2	0.08990	0.29984	0.06543	1.97748	0.50119	3.91737	0.97194
E. coli (CFU/100ml)	73	805.20548	225.19450	1385.21646	100	58780	5	18000	50	310	17995	260	6179860.72108	2485.93257	290.95640	5.41605	0.28103	33.55369	0.55522
TOC (mg/l)	21	5.40476	4.52841	6.28111	4.8	113.5	2.6	11.7	4.4	6.3	9.1	1.9	3.70648	1.92522	0.42012	1.94779	0.50119	5.11516	0.97194
Hardness (mg/l)	75	164.44000	153.70508	175.17492	164	12333	73	308	132	186	235	54	2176.92541	46.65753	5.38755	1.02879	0.27740	2.22236	0.54821
Chloride (mg/l)	21	15.97619	11.27948	20.67290	13	335.5	2.5	42	9	19	39.5	10	106.46190	10.31804	2.25158	1.42760	0.50119	1.70322	0.97194
Dissolved Oxygen (mg/l)	59	7.67559	7.10521	8.24597	7.41	452.86	4.22	13.4	6.3	9.11	9.18	2.81	4.79041	2.18870	0.28494	0.56808	0.31118	-0.08402	0.61326
pH	60	7.52217	7.42163	7.62270	7.54	451.33	6.43	8.6	7.325	7.755	2.17	0.43	0.15145	0.38917	0.05024	-0.24793	0.30869	1.27541	0.60849
Copper (ug/l)	21	2.81905	2.20065	3.43745	2	59.2	2	5.9	2	4.4	3.9	2.4	1.84562	1.35854	0.29646	1.20197	0.50119	-0.27362	0.97194
Iron (ug/l)	21	1487.14286	874.63442	2099.65129	1200	31230	430	6400	840	1500	5970	660	1810631.42857	1345.59705	293.63335	2.82779	0.50119	9.04371	0.97194
Zinc (ug/l)	21	8.68333	5.70387	11.66279	6.6	182.35	2.25	27	5.1	9	24.75	3.9	42.84308	6.54546	1.42834	1.79711	0.50119	2.97181	0.97194

Station: P-35

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std. Err.	Skewness	Std. Err.
Alkalinity (mg/l)	21	76.38095	66.04245	86.71946	68	1604	47	135	63	80	88	17	515.84762	22.71228	4.95623	1.48788	0.50119	1.65563	0.97194
Ammonia (mg/l as N)	21	0.09286	0.06044	0.12527	0.05	1.95	0.05	0.3	0.05	0.1	0.25	0.05	0.00507	0.07121	0.01554	1.76829	0.50119	2.47977	0.97194
BOD (mg/l)	17	1.68235	1.05812	2.30659	1.6	28.6	0.5	5.9	1.1	1.9	5.4	0.8	1.47404	1.21410	0.29446	2.75845	0.54975	9.86750	1.06320
COD (mg/l)	21	16.30476	13.32293	19.28660	15.2	342.4	9.4	40	11.7	18.4	30.6	6.7	42.91148	6.55069	1.42948	2.47683	0.50119	8.36461	0.97194
Cyanide (mg/l)	19	0.00537	0.00488	0.00586	0.005	0.102	0.005	0.009	0.005	0.004	0	0.00000	0.00101	0.00023	3.10009	0.52377	9.87489	1.01427	
Nitrate (mg/l as N)	21	1.78095	1.30016	2.26174	1.8	37.4	0.4	4.7	1	2.4	4.3	1.4	1.11562	1.05623	0.23049	0.98821	0.50119	1.45331	0.97194
Total Phosphorus (mg/l as P)	21	0.16190	0.10459	0.21922	0.15	3.4	0.05	0.63	0.1	0.17	0.58	0.07	0.01586	0.12592	0.02748	2.88970	0.50119	9.84979	0.97194
Total Solids (mg/l)	21	343.09524	282.37053	403.81995	306	7205	194	605	236	473	411	237	17796.59048	133.40386	29.11111	0.66353	0.50119	-1.00740	0.97194
Suspended Solids (mg/l)	21	69.19048	47.29727	91.08369	56	1453	16	196	28	93	180	65	2313.26190	48.09638	10.49549	1.19511	0.50119	1.05539	0.97194
Dissolved Solids (mg/l)	7	255.28571	166.38385	344.18758	231	1787	151	438	179	311	287	132	9240.23810	96.12616	36.33227	1.21241	0.79373	1.59212	1.58745
Sulfate (mg/l)	7	105.85714	50.97232	160.74196	87	741	43	220	63	140	177	77	3521.80952	59.34484	22.43024	1.30800	0.79373	1.77944	1.58745
TKN (mg/l as N)	7	0.75714	0.55838	0.95591	0.8	5.3	0.4	1	0.6	1	0.6	0.4	0.04619	0.21492	0.08123	-0.48927	0.79373	-0.18257	1.58745
E. coli (CFU/100ml)	21	399.04762	23.77111	774.32413	100	8380	5	3600	30	240	3595	210	679686.54762	824.43104	179.90560	3.31777	0.50119	12.09559	0.97194
TOC (mg/l)	7	4.37143	2.88235	5.86051	3.9	30.6	2.5	7.4	3.3	5.4	4.9	2.1	2.59238	1.61009	0.60856	1.15580	0.79373	1.48049	1.58745
Hardness (mg/l)	21	164.14286	138.70840	189.57731	153	3447	76	286	128	200	210	72	3122.12857	55.87601	12.19315	0.65696	0.50119	-0.01571	0.97194
Chloride (mg/l)	7	7.00000	5.15031	8.84969	6	49	5	10	5	9	5	4	4.00000	2.00000	0.75593	0.52500	0.79373	-1.55000	1.58745
Dissolved Oxygen (mg/l)	15	8.73200	7.48844	9.97556	8.48	130.98	5.14	12.93	6.8	9.75	7.79	2.95	5.04263	2.24558	0.57981	0.30540	0.58012	-0.43782	1.12090
pH	15	7.46600	7.27020	7.66180	7.48	111.99	6.84	8.02	7.2	7.67	1.18	0.47	0.12501	0.35357	0.09129	-0.24010	0.58012	-0.48401	1.12090
Copper (ug/l)	9	3.34444	1.75648	4.93241	2	30.1	2	6.6	2	5	4.6	3	4.26778	2.06586	0.68862	1.01866	0.71714	-1.06255	1.39971
Iron (ug/l)	8	2061.25000	1004.69836	3117.80164	1550	16490	990	4900	1400	2350	3910	950	1597155.35714	1263.78612	446.81587	1.99887	0.75210	4.11620	1.48088
Zinc (ug/l)	9	14.75556	8.16133	21.34978	9.4	132.8	7.3	32	9	20	24.7	11	73.59528	8.57877	2.85959	1.16308	0.71714	0.47866	1.39971

Station: P-76

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	22	81.72727	61.57712	101.87742	67.5	1798	48	249	60	71	201	11	2065.44589	45.44718	9.68937	2.92384	0.49096	9.03326	0.95278
Ammonia (mg/l as N)	22	0.28409	0.14068	0.42750	0.2	6.25	0.05	1.2	0.1	0.3	1.15	0.2	0.10462	0.32344	0.06896	2.01524	0.49096	3.46581	0.95278
BOD (mg/l)	19	2.06842	1.20576	2.93108	1.5	39.3	0.5	7.6	1	2.4	7.1	1.4	3.20339	1.78980	0.41061	1.99311	0.52377	4.28124	1.01427
COD (mg/l)	22	15.64545	12.46583	18.82508	14.95	344.2	8	39	11.4	15.5	31	4.1	51.42926	7.17142	1.52895	2.25524	0.49096	5.57218	0.95278
Cyanide (mg/l)	20	0.00610	0.00462	0.00758	0.005	0.122	0.005	0.019	0.005	0.0055	0.014	0.0005	0.00001	0.00316	0.00071	3.95454	0.51210	16.53400	0.99238
Nitrate (mg/l as N)	22	2.11818	1.47850	2.75787	1.7	46.6	0.2	5	1	3.2	4.8	2.2	2.08156	1.44276	0.30760	0.58701	0.49096	-0.71138	0.95278
Total Phosphorus (mg/l as P)	22	0.17455	0.11382	0.23527	0.135	3.84	0.06	0.61	0.09	0.2	0.55	0.11	0.01876	0.13696	0.02920	2.38806	0.49096	5.68822	0.95278
Total Solids (mg/l)	22	269.50000	204.15097	334.84903	234.5	5929	148	816	177	275	668	98	21723.78571	147.38991	31.42363	2.69366	0.49096	8.87435	0.95278
Suspended Solids (mg/l)	22	77.40909	40.39838	114.41980	49	1703	10	380	24	103	370	79	6968.06277	83.47492	17.79691	2.55173	0.49096	7.94804	0.95278
Dissolved Solids (mg/l)	7	135.28571	105.02985	165.54157	127	947	103	181	108	177	78	69	1070.23810	32.71449	12.36492	0.63793	0.79373	-1.52129	1.58745
Sulfate (mg/l)	7	26.14286	19.01037	33.27534	26	183	14	36	20	34	22	14	59.47619	7.71208	2.91489	-0.28790	0.79373	-0.58419	1.58745
TKN (mg/l as N)	22	1.01818	0.75834	1.27803	0.8	22.4	0.4	2.4	0.6	1.5	2	0.9	0.34346	0.58606	0.12495	1.03374	0.49096	-0.04850	0.95278
E. coli (CFU/100ml)	22	413.40909	96.00860	730.80958	105	9095	5	2500	60	350	2495	290	512474.72944	715.87340	152.62472	2.39320	0.49096	4.97361	0.95278
TOC (mg/l)	7	2.97143	2.52241	3.42045	3	20.8	2.4	3.6	2.4	3.4	1.2	1	0.23571	0.48550	0.18350	-0.06242	0.79373	-1.87093	1.58745
Hardness (mg/l)	22	123.04545	94.91713	151.17378	104	2707	48	350	90	138	302	48	4024.80736	63.44137	13.52575	2.55200	0.49096	7.83678	0.95278
Chloride (mg/l)	7	6.07143	2.22628	9.91658	5	42.5	2.5	13	2.5	10	10.5	7.5	17.28571	4.15761	1.57143	0.83164	0.79373	-0.66326	1.58745
Dissolved Oxygen (mg/l)	17	8.59118	7.58108	9.60127	8.2	146.05	5.7	12.17	7.21	9.58	6.47	2.37	3.85956	1.96458	0.47648	0.39037	0.54975	-0.58233	1.06320
pH	17	7.38647	7.21144	7.56150	7.34	125.57	6.5	8.03	7.27	7.6	1.53	0.33	0.11589	0.34042	0.08256	-0.59065	0.54975	2.18763	1.06320
Copper (ug/l)	20	3.68000	2.50907	4.85093	2	73.6	2	10	2	5.15	8	3.15	6.25958	2.50192	0.55945	1.43089	0.51210	1.21386	0.99238
Iron (ug/l)	8	1725.00000	981.59250	2468.40750	1400	13800	800	3000	1000	2600	2200	1600	790714.28571	889.22117	314.38716	0.49433	0.75210	-1.81653	1.48088
Zinc (ug/l)	20	14.93250	9.21456	20.65044	10	298.65	2.25	50	7.35	20	47.75	12.65	149.26586	12.21744	2.73190	1.62366	0.51210	2.33670	0.99238

Station: PC-21

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	18	217.05556	197.73121	236.37990	223.5	3907	131	274	205	249	143	44	1510.05556	38.85943	9.15926	-0.72385	0.53628	-0.00221	1.03780
Ammonia (mg/l as N)	19	0.06053	0.04334	0.07772	0.05	1.15	0.05	0.2	0.05	0.05	0.15	0	0.00127	0.03566	0.00818	3.77081	0.52377	14.70749	1.01427
BOD (mg/l)	15	1.14667	0.74740	1.54593	1.1	17.2	0.5	3	0.5	1.4	2.5	0.9	0.51981	0.72098	0.18616	1.24838	0.58012	1.74927	1.12090
COD (mg/l)	19	14.37895	9.47618	19.28172	12.2	273.2	2.5	51.1	8	16	48.6	8	103.47064	10.17205	2.33363	2.75932	0.52377	9.86168	1.01427
Cyanide (mg/l)	19	0.00521	0.00495	0.00547	0.005	0.099	0.005	0.007	0.005	0.005	0.002	0	0.00000	0.00054	0.00012	2.65750	0.52377	6.88323	1.01427
Nitrate (mg/l as N)	19	6.00789	3.86094	8.15485	5.9	114.15	0.05	13	1.9	10	12.95	8.1	19.84174	4.45441	1.02191	0.16910	0.52377	-1.38659	1.01427
Total Phosphorus (mg/l as P)	19	0.08500	0.03817	0.13183	0.06	1.615	0.015	0.45	0.03	0.11	0.435	0.08	0.00944	0.09715	0.02229	3.20797	0.52377	11.99964	1.01427
Total Solids (mg/l)	18	446.72222	407.98297	485.46148	438	8041	326	712	409	456	386	47	6068.56536	77.90100	18.36144	2.34836	0.53628	8.26370	1.03780
Suspended Solids (mg/l)	18	42.83333	-2.69991	88.36657	19.5	771	2	404	10	28	402	18	8383.79412	91.56306	21.58162	4.02839	0.53628	16.69508	1.03780
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	17	1728.52941	-592.28120	4049.34002	160	29385	5	17000	20	530	16995	510	20374896.13971	4513.85602	1094.77089	3.03430	0.54975	9.01547	1.06320
TOC (mg/l)	1	8.40000																	
Hardness (mg/l)	19	291.47368	262.66578	320.28159	316	5538	162	366	237	350	204	113	3572.37427	59.76934	13.71203	-0.66817	0.52377	-0.58684	1.01427
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	16	10.26500	8.94729	11.58271	9.75	164.24	6.62	15.06	8.315	11.98	8.44	3.665	6.11520	2.47289	0.61822	0.64804	0.56431	-0.52968	1.09077
pH	16	8.02688	7.85043	8.20332	8.02	128.43	7.3	8.59	7.875	8.295	1.29	0.42	0.10965	0.33113	0.08278	-0.58894	0.56431	0.57044	1.09077
Copper (ug/l)	3	4.10000	-4.93557	13.13557	2	12.3	2	8.3					13.23000	3.63731	2.10000	1.73205	1.22474		
Iron (ug/l)	3	346.66667	95.37145	597.96189	400	1040	230	410					10233.33333	101.15994	58.40472	-1.71303	1.22474		
Zinc (ug/l)	3	3.76667	-2.75902	10.29236	2.25	11.3	2.25	6.8					6.90083	2.62694	1.51667	1.73205	1.22474		

Station: S-0

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	78	154.14103	144.58911	163.69294	142.5	12023	71	278	125	186	207	61	1794.82401	42.36536	4.79693	0.68607	0.27221	0.22581	0.53818
Ammonia (mg/l as N)	78	0.13532	0.09628	0.17437	0.05	10.555	0.005	1.4	0.05	0.2	1.395	0.15	0.02999	0.17318	0.01961	5.32314	0.27221	37.13002	0.53818
BOD (mg/l)	38	1.69211	1.28076	2.10345	1.4	64.3	0.5	7	1	1.9	6.5	0.9	1.56615	1.25146	0.20301	2.41828	0.38282	8.08376	0.74970
COD (mg/l)	78	21.45256	19.75108	23.15405	19.1	1673.3	2.5	51	17	24.8	48.5	7.8	56.95058	7.54656	0.85448	1.44964	0.27221	3.68733	0.53818
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	78	3.29359	2.88304	3.70414	2.85	256.9	0.4	8.9	2.2	4.5	8.5	2.3	3.31567	1.82090	0.20618	0.96770	0.27221	0.59953	0.53818
Total Phosphorus (mg/l as P)	78	0.14558	0.11947	0.17169	0.11	11.355	0.015	0.64	0.06	0.19	0.625	0.13	0.01341	0.11580	0.01311	1.71058	0.27221	3.65661	0.53818
Total Solids (mg/l)	77	351.28571	332.65566	369.91577	322	27049	239	762	291	402	523	111	6737.25940	82.08081	9.35398	1.92537	0.27391	6.76427	0.54146
Suspended Solids (mg/l)	78	29.55128	23.14281	35.95976	21	2305	2	148	10	34	146	24	807.88695	28.42335	3.21831	2.19280	0.27221	5.37247	0.53818
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	74	587.09459	123.22478	1050.96441	35	43445	5	15000	5	150	14995	145	4008765.07312	2002.19007	232.74987	5.71785	0.27920	37.97448	0.55168
TOC (mg/l)	0																		
Hardness (mg/l)	78	219.69231	206.18494	233.19967	206	17136	109	404	180	256	295	76	3589.07293	59.90887	6.78334	0.82823	0.27221	0.29792	0.53818
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	59	10.51119	9.93513	11.08724	10.21	620.16	6.2	15.7	8.83	12.14	9.5	3.31	4.88620	2.21047	0.28778	0.37283	0.31118	-0.54104	0.61326
pH	60	7.91650	7.82000	8.01300	7.97	474.99	7.08	8.67	7.61	8.165	1.59	0.555	0.13955	0.37357	0.04823	-0.09154	0.30869	-0.65921	0.60849
Copper (ug/l)	8	3.88750	2.01787	5.75713	3.25	31.1	2	7.8	2	5.4	5.8	3.4	5.00125	2.23635	0.79067	0.72229	0.75210	-0.75090	1.48088
Iron (ug/l)	8	591.25000	305.20175	877.29825	640	4730	110	1100	285	835	990	550	117069.64286	342.15441	120.96985	-0.03081	0.75210	-1.23456	1.48088
Zinc (ug/l)	8	2.53125	1.86620	3.19630	2.25	20.25	2.25	4.5	2.25	2.25	2.25	0	0.63281	0.79550	0.28125	2.82843	0.75210	8.00000	1.48088

Station: S-25

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	75	210.50667	198.56126	222.45207	218	15788	99	309	174	245	210	71	2695.55063	51.91869	5.99505	-0.37594	0.27740	-0.45579	0.54821
Ammonia (mg/l as N)	75	0.09800	0.07345	0.12255	0.05	7.35	0.05	0.7	0.05	0.1	0.65	0.05	0.01138	0.10668	0.01232	3.28671	0.27740	13.72234	0.54821
BOD (mg/l)	36	2.83889	2.05813	3.61965	2.15	102.2	0.5	9.3	1.05	4.05	8.8	3	5.32473	2.30754	0.38459	1.24276	0.39254	1.17713	0.76808
COD (mg/l)	75	22.63467	20.58012	24.68921	21	1697.6	10	55.6	16	27	45.6	11	79.74013	8.92973	1.03112	1.39344	0.27740	2.40767	0.54821
Cyanide (mg/l)	3	0.00600	0.00170	0.01030	0.005	0.018	0.005	0.008			0.003		0.00000	0.00173	0.00100	1.73205	1.22474		
Nitrate (mg/l as N)	75	2.78267	2.18771	3.37762	2	208.7	0.05	8.9	0.6	4	8.85	3.4	6.68672	2.58587	0.29859	0.85081	0.27740	-0.32774	0.54821
Total Phosphorus (mg/l as P)	75	0.18080	0.13804	0.22356	0.15	13.56	0.04	1.45	0.08	0.21	1.41	0.13	0.03455	0.18586	0.02146	4.69368	0.27740	29.47874	0.54821
Total Solids (mg/l)	75	488.25333	467.81811	508.68855	491	36619	244	752	440	545	508	105	7888.67820	88.81823	10.25585	-0.01837	0.27740	1.10534	0.54821
Suspended Solids (mg/l)	75	52.22667	36.35434	68.09900	32	3917	2	396	15	55	394	40	4759.12360	68.98640	7.96586	3.02212	0.27740	10.64891	0.54821
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	71	922.39437	421.69499	1423.09374	150	65490	5	11000	40	470	10995	430	4474780.61368	2115.36773	251.04796	3.39593	0.28480	11.83554	0.56251
TOC (mg/l)	0																		
Hardness (mg/l)	74	300.50000	283.97354	317.02646	309.5	22237	148	424	238	354	276	116	5088.36301	71.33276	8.29227	-0.35683	0.27920	-0.74722	0.55168
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	58	10.55741	10.05371	11.06112	10.515	612.33	6.5	16.02	9.08	12.17	9.52	3.09	3.66990	1.91570	0.25154	0.26999	0.31372	-0.16459	0.61814
pH	59	7.94356	7.84549	8.04163	7.98	468.67	7.11	8.79	7.7	8.19	1.68	0.49	0.14161	0.37631	0.04899	-0.24628	0.31118	-0.08631	0.61326
Copper (ug/l)	10	4.44000	2.19014	6.68986	3.1	44.4	2	10	2	5.6	8	3.6	9.89156	3.14508	0.99456	1.06414	0.68704	-0.22659	1.33425
Iron (ug/l)	9	895.55556	21.09547	1770.01564	480	8060	170	3800	280	940	3630	660	1294202.77778	1137.63033	379.21011	2.54099	0.71714	6.93709	1.39971
Zinc (ug/l)	10	5.75500	1.84611	9.66389	3.975	57.55	2.25	20	2.25	7.2	17.75	4.95	29.85803	5.46425	1.72795	2.28266	0.68704	5.92828	1.33425

Station: S-71															
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error
Alkalinity (mg/l)	79	231.62025	218.85193	244.38858	245	18298	84	371	199	272	287	73	3249.52061	57.00457	6.41351
Ammonia (mg/l as N)	80	0.28063	0.17193	0.38932	0.1	22.45	0.05	3.2	0.05	0.3	3.15	0.25	0.23858	0.48844	0.05461
BOD (mg/l)	38	2.58421	1.98280	3.18562	2.2	98.2	0.5	9	1.4	3.2	8.5	1.8	3.34785	1.82971	0.29682
COD (mg/l)	80	23.04125	21.28918	24.79332	21.6	1843.3	10	52	17.7	26.8	42	9.1	61.98524	7.87307	0.88024
Cyanide (mg/l)	80	0.00716	0.00623	0.00809	0.005	0.573	0.005	0.028	0.005	0.0085	0.023	0.0035	0.00002	0.00418	0.00047
Nitrate (mg/l as N)	80	18.68750	-12.08712	49.46212	3	1495	0.2	1240	2.1	4.35	1239.8	2.25	19123.74009	138.28861	15.46114
Total Phosphorus (mg/l as P)	80	0.42225	0.35422	0.49028	0.35	33.78	0.03	1.37	0.205	0.56	1.34	0.355	0.09345	0.30570	0.03418
Total Solids (mg/l)	79	696.02532	638.02137	754.02926	626	54986	394	1537	516	820	1143	304	67060.43525	258.96030	29.13531
Suspended Solids (mg/l)	79	39.75949	29.31228	50.20671	26	3141	2	280	11	49	278	38	2175.46706	46.64190	5.24762
Dissolved Solids (mg/l)	0														
Sulfate (mg/l)	0														
TKN (mg/l as N)	0														
E. coli (CFU/100ml)	77	4574.54545	1018.75375	8130.33716	610	352240	20	120000	190	3000	119980	2810	245429885.64593	15666.20202	1785.32941
TOC (mg/l)	0														
Hardness (mg/l)	80	366.45000	344.81557	388.08443	373	29316	134	586	318	434.5	452	116.5	9451.01013	97.21631	10.86911
Chloride (mg/l)	0														
Dissolved Oxygen (mg/l)	60	9.85233	9.32798	10.37669	9.785	591.14	6.2	13.97	8.385	10.98	7.77	2.595	4.12009	2.02980	0.26205
pH	61	7.89951	7.81382	7.98520	7.92	481.87	7.11	8.67	7.65	8.14	1.56	0.49	0.11195	0.33459	0.04284
Copper (ug/l)	11	5.01818	3.14317	6.89320	5	55.2	2	9.7	2	7.9	7.7	5.9	7.78964	2.79099	0.84152
Iron (ug/l)	9	692.22222	189.96694	1194.47750	400	6230	160	2000	240	1100	1840	860	426944.44444	653.40986	217.80329
Zinc (ug/l)	11	11.33636	7.23478	15.43795	10	124.7	4.9	23	6.1	16	18.1	9.9	37.27455	6.10529	1.84081

Station: SC-25															
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error
Alkalinity (mg/l)	78	216.15385	207.28769	225.02001	218.5	16860	48	279	197	240	231	43	1546.36563	39.32386	4.45255
Ammonia (mg/l as N)	78	0.05705	0.05110	0.06300	0.05	4.45	0.05	0.2	0.05	0.05	0.15	0	0.00070	0.02639	0.00299
BOD (mg/l)	37	1.31892	0.93321	1.70462	1.2	48.8	0.5	6.5	0.5	1.5	6	1	1.33824	1.15682	0.19018
COD (mg/l)	78	12.15897	10.35899	13.95896	10.15	948.4	2.5	58.8	8.4	13.9	56.3	5.5	63.73518	7.98343	0.90395
Cyanide (mg/l)	10	0.00530	0.00482	0.00578	0.005	0.053	0.005	0.007	0.005	0.005	0.002	0	0.00000	0.00067	0.00021
Nitrate (mg/l as N)	78	4.45128	3.80542	5.09715	4.35	347.2	0.05	11	1.6	6.7	10.95	5.1	8.20584	2.86458	0.32435
Total Phosphorus (mg/l as P)	78	0.08788	0.06989	0.10588	0.07	6.855	0.015	0.62	0.05	0.11	0.605	0.06	0.00637	0.07981	0.00904
Total Solids (mg/l)	78	433.67949	412.84224	454.51674	427.5	33827	87	924	397	455	837	58	8541.25957	92.41894	10.46438
Suspended Solids (mg/l)	78	21.01282	7.42120	34.60444	8	1639	2	524	4	19	522	15	3633.98685	60.28256	6.82566
Dissolved Solids (mg/l)	0														
Sulfate (mg/l)	0														
TKN (mg/l as N)	0														
E. coli (CFU/100ml)	75	266.86667	30.74412	502.98921	30	20015	5	8000	5	120	7995	115	1053223.49550	1026.26678	118.50308
TOC (mg/l)	0														
Hardness (mg/l)	78	296.56410	284.82289	308.30532	303.5	23132	90	390	270	328	300	58	2711.85947	52.07552	5.89639
Chloride (mg/l)	0														
Dissolved Oxygen (mg/l)	63	11.66857	11.10796	12.22919	11.5	735.12	6.43	18.6	10.21	13.21	12.17	3	4.95514	2.22601	0.28045
pH	64	8.07563	7.96851	8.18274	8.055	516.84	7.17	8.87	7.78	8.445	1.7	0.665	0.18388	0.42881	0.05360
Copper (ug/l)	9	3.22222	2.02043	4.42401	2	29	2	6	2	4	4	2	2.44444	1.56347	0.52116
Iron (ug/l)	0														
Zinc (ug/l)	9	9.44444	5.87798	13.01091	10	85	5	20	5	10	15	5	21.52778	4.63980	1.54660

Station: SGR-1

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Err.	
Alkalinity (mg/l)	21	232.95238	213.18232	252.72244	244	4892	90	278	215	263	188	48	1886.34762	43.43210	9.47766	-1.92458	0.50119	4.93501	0.97194
Ammonia (mg/l as N)	21	0.06429	0.04796	0.08061	0.05	1.35	0.05	0.2	0.05	0.05	0.15	0	0.00129	0.03586	0.00782	3.10078	0.50119	10.58073	0.97194
BOD (mg/l)	19	1.05263	0.40292	1.70234	0.5	20	0.5	6.1	0.5	1	5.6	0.5	1.81708	1.34799	0.30925	3.34152	0.52377	11.93160	1.01427
COD (mg/l)	21	12.61905	7.31495	17.92314	9.4	265	2.5	60.2	7.8	11.7	57.7	3.9	135.77762	11.65237	2.54275	3.70745	0.50119	15.34191	0.97194
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	21	2.37619	1.70752	3.04486	2.2	49.9	0.4	5.2	1.2	3.3	4.8	2.1	2.15790	1.46898	0.32056	0.33745	0.50119	-0.96611	0.97194
Total Phosphorus (mg/l as P)	21	0.12333	0.05299	0.19368	0.09	2.59	0.04	0.78	0.07	0.12	0.74	0.05	0.02388	0.15454	0.03372	4.19950	0.50119	18.53259	0.97194
Total Solids (mg/l)	21	449.33333	412.55673	486.10994	440	9436	359	762	410	464	403	54	6527.53333	80.79315	17.63051	3.02853	0.50119	11.86061	0.97194
Suspended Solids (mg/l)	21	33.61905	-13.25527	80.49336	8	706	2	480	2	12	478	10	10604.14762	102.97644	22.47130	4.48373	0.50119	20.34567	0.97194
Dissolved Solids (mg/l)	7	635.71429	27.95628	1243.47229	402	4450	322	2121	329	466	1799	137	431839.90476	657.14527	248.37757	2.60886	0.79373	6.85090	1.58745
Sulfate (mg/l)	7	40.14286	25.99112	54.29459	36	281	17	61	31	55	44	24	234.14286	15.30173	5.78351	-0.04931	0.79373	-0.81596	1.58745
TKN (mg/l as N)	7	0.85714	-0.06594	1.78023	0.5	6	0.3	3.1	0.4	0.7	2.8	0.3	0.99619	0.99809	0.37724	2.54668	0.79373	6.59587	1.58745
E. coli (CFU/100ml)	21	531.90476	-240.96728	1304.77680	100	11170	5	7900	20	310	7895	290	2882843.69048	1697.89390	370.51082	4.49851	0.50119	20.45066	0.97194
TOC (mg/l)	7	3.91429	0.85184	6.97674	2.4	27.4	2.1	11.3	2.2	3.7	9.2	1.5	10.96476	3.31131	1.25156	2.47220	0.79373	6.26686	1.58745
Hardness (mg/l)	21	299.61905	277.75905	321.47904	316	6292	148	359	294	330	211	36	2306.24762	48.02341	10.47957	-1.73009	0.50119	3.89657	0.97194
Chloride (mg/l)	7	36.42857	21.46952	51.38762	34	255	12	61	26	52	49	26	261.61905	16.17464	6.11344	0.15683	0.79373	-0.00390	1.58745
Dissolved Oxygen (mg/l)	16	10.42625	9.46122	11.39128	10.215	166.82	7.46	12.8	9.08	12.16	5.34	3.08	3.27985	1.81104	0.45276	-0.16795	0.56431	-1.46291	1.09077
pH	16	8.09438	7.96108	8.22767	8.075	129.51	7.75	8.51	7.885	8.23	0.76	0.345	0.06257	0.25015	0.06254	0.42076	0.56431	-0.84819	1.09077
Copper (ug/l)	7	4.98571	-0.31918	10.29061	2	34.9	2	17	2	7.9	15	5.9	32.90143	5.73598	2.16800	2.01018	0.79373	3.78431	1.58745
Iron (ug/l)	7	3452.85714	-3718.89222	10624.60651	240	24170	100	21000	150	1300	20900	1150	60132823.80952	7754.53569	2930.93900	2.62177	0.79373	6.90147	1.58745
Zinc (ug/l)	7	16.92143	-9.34185	43.18471	6.4	118.45	2.25	81	4.5	11	78.75	6.5	806.41655	28.39747	10.73324	2.59118	0.79373	6.77749	1.58745

Station: SJR-51

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Err.	
Alkalinity (mg/l)	76	214.28947	208.61779	219.96116	216.5	16286	46	245	206	227.5	199	21.5	616.04842	24.82032	2.84709	-4.26620	0.27564	27.80346	0.54480
Ammonia (mg/l as N)	76	0.14013	0.10976	0.17051	0.1	10.65	0.05	0.7	0.05	0.2	0.65	0.15	0.01767	0.13292	0.01525	2.12934	0.27564	4.91798	0.54480
BOD (mg/l)	35	2.28571	1.66157	2.90985	1.7	80	0.5	8.3	1.4	2.7	7.8	1.3	3.30126	1.81694	0.30712	2.06809	0.39769	4.42844	0.77779
COD (mg/l)	76	18.28947	16.97655	19.60240	18	1390	6	34.7	14	20.6	28.7	6.6	33.01189	5.74560	0.65907	0.78595	0.27564	0.35762	0.54480
Cyanide (mg/l)	17	0.00518	0.00480	0.00555	0.005	0.088	0.005	0.008	0.005	0.005	0.003	0	0.00000	0.00073	0.00018	4.12311	0.54975	17.00000	1.06320
Nitrate (mg/l as N)	76	2.79605	1.58936	4.00275	2.15	212.5	0.9	48	1.9	2.5	47.1	0.6	27.88598	5.28072	0.60574	8.58486	0.27564	74.43462	0.54480
Total Phosphorus (mg/l as P)	76	0.13289	0.11669	0.14910	0.11	10.1	0.04	0.4	0.09	0.16	0.36	0.07	0.00503	0.07093	0.00814	1.65801	0.27564	3.06547	0.54480
Total Solids (mg/l)	76	429.57895	420.00360	439.15430	432	32648	351	593	405	459.5	242	54.5	1755.90035	41.90346	4.80666	0.49507	0.27564	1.79468	0.54480
Suspended Solids (mg/l)	76	12.73684	9.55464	15.91904	11	968	2	95	5	15.5	93	10.5	193.92982	13.92587	1.59741	3.90393	0.27564	19.15529	0.54480
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	76	0.87750	0.82306	0.93194	0.8	66.69	0.3	1.7	0.7	1	1.4	0.3	0.05677	0.23826	0.02733	1.01897	0.27564	1.85869	0.54480
E. coli (CFU/100ml)	76	4761.11842	763.37335	8758.86349	875	361845	5	120400	400	1850	120395	1450	306069865.73246	17494.85255	2006.79722	5.36604	0.27564	30.04485	0.54480
TOC (mg/l)	0																		
Hardness (mg/l)	76	281.73684	276.28388	287.18980	283.5	21412	194	336	271	299	142	28	569.44982	23.86315	2.73729	-0.95411	0.27564	2.03647	0.54480
Chloride (mg/l)	75	46.69333	43.89201	49.49466	48	3502	19	66	40	57	47	17	148.24252	12.17549	1.40590	-0.63014	0.27740	-0.36099	0.54821
Dissolved Oxygen (mg/l)	58	9.97190	9.53567	10.40812	10.05	578.37	6.3	13.72	8.6	11.25	7.42	2.65	2.75246	1.65905	0.21784	0.21474	0.31372	-0.47458	0.61814
pH	57	7.89404	7.81337	7.97470	7.94	449.96	6.84	8.43	7.75	8.08	1.59	0.33	0.09243	0.30402	0.04027	-0.80979	0.31633	1.58901	0.62313
Copper (ug/l)	76	2.94737	2.54220	3.35254	2	224	2	9	2	4	7	2	3.14386	1.77309	0.20339	1.87985	0.27564	2.60648	0.54480
Iron (ug/l)	76	534.34211	418.95494	649.72927	400	40610	140	3500	295	555	3360	260	254979.56140	504.95501	57.92231	3.80537	0.27564	17.61803	0.54480
Zinc (ug/l)	76	20.03026	9.19255	30.86798	10	1522.3	5	420	10	20	415	10	2249.39547	47.42779	5.44034	8.22029	0.27564	69.94763	0.54480

Station: SJR-64

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Skewness	Kurtosis	Std.Err.
Alkalinity (mg/l)	72	204.88889	200.51579	209.26198	206	14752	94	239	198.5	216	145	17.5	346.32551	18.60982	2.19319	-3.10405	0.28290	17.30373	0.55883
Ammonia (mg/l as N)	72	0.07569	0.06203	0.08936	0.05	5.45	0.05	0.4	0.05	0.1	0.35	0.05	0.00338	0.05814	0.00685	3.31092	0.28290	13.66952	0.55883
BOD (mg/l)	35	1.48857	1.16528	1.81186	1.3	52.1	0.5	4.8	1	1.7	4.3	0.7	0.88575	0.94114	0.15908	1.76979	0.39769	3.89135	0.77779
COD (mg/l)	72	17.45139	16.31966	18.58312	16.5	1256.5	11	34.3	13.85	19.8	23.3	5.95	23.19493	4.81611	0.56758	1.20276	0.28290	1.56929	0.55883
Cyanide (mg/l)	71	0.00504	0.00498	0.00510	0.005	0.358	0.005	0.007	0.005	0.002	0	0.00000	0.00026	0.00003	6.70371	0.28480	46.74580	0.56251	
Nitrate (mg/l as N)	72	1.77778	1.63760	1.91795	1.7	128	0.5	4.1	1.3	2.2	3.6	0.9	0.35584	0.59652	0.07030	0.88950	0.28290	1.87467	0.55883
Total Phosphorus (mg/l as P)	72	0.05972	0.05133	0.06812	0.05	4.3	0.015	0.26	0.04	0.07	0.245	0.03	0.00128	0.03573	0.00421	2.81368	0.28290	13.25468	0.55883
Total Solids (mg/l)	72	359.02778	352.44302	365.61253	360.5	25850	197	425	350.5	370	228	19.5	785.21049	28.02161	3.30238	-2.55723	0.28290	15.20453	0.55883
Suspended Solids (mg/l)	71	12.92958	10.18777	15.67138	11	918	2	84	6	16	82	10	134.18068	11.58364	1.37472	3.58270	0.28480	19.66708	0.56251
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	1	1.20000					1.2	1.2	1.2										
E. coli (CFU/100ml)	72	812.02083	433.18763	1190.85403	205	58465.5	0.5	11000	35	705	10999.5	670	2598979.87632	1612.13519	189.99195	4.09863	0.28290	22.30207	0.55883
TOC (mg/l)	0																		
Hardness (mg/l)	72	263.08333	256.13986	270.02680	270	18942	135	308	255.5	281	173	25.5	873.09155	29.54812	3.48228	-2.06415	0.28290	5.84585	0.55883
Chloride (mg/l)	1	27.00000					27	27	27										
Dissolved Oxygen (mg/l)	56	10.17125	9.73534	10.60716	10.125	569.59	6.92	13.44	8.905	11.68	6.52	2.775	2.64956	1.62775	0.21752	0.05754	0.31900	-0.84701	0.62826
pH	56	8.03714	7.95736	8.11692	8.08	450.08	6.95	8.55	7.9	8.2	1.6	0.3	0.08875	0.29791	0.03981	-1.25182	0.31900	2.76003	0.62826
Copper (ug/l)	11	2.63636	1.88389	3.38883	2	29	2	5	2	4	3	2	1.25455	1.12006	0.33771	1.41037	0.66069	0.42743	1.27942
Iron (ug/l)	0																		
Zinc (ug/l)	11	8.84091	5.68781	11.99401	10	97.25	2.25	20	5	10	17.75	5	22.02841	4.69344	1.41513	1.11434	0.66069	2.65560	1.27942

Station: SJR-87

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Skewness	Kurtosis	Std.Err.
Alkalinity (mg/l)	75	225.30667	218.77108	231.84225	230	16898	149	345	210	241	196	31	806.89117	28.40583	3.28002	0.24734	0.27740	3.77002	0.54821
Ammonia (mg/l as N)	75	0.44400	-0.24447	1.13247	0.05	33.3	0.05	26	0.05	0.1	25.95	0.05	8.95405	2.99233	0.34552	8.64694	0.27740	74.84335	0.54821
BOD (mg/l)	37	1.58649	1.14317	2.02980	1.5	58.7	0.5	6.1	0.5	1.9	5.6	1.4	1.76787	1.32961	0.21859	1.55753	0.38759	2.69751	0.75872
COD (mg/l)	75	79.90533	-43.78639	203.59706	15.6	5992.9	6.1	4673	11	24	4666.9	13	289019.35889	537.60521	62.07730	8.65663	0.27740	74.95746	0.54821
Cyanide (mg/l)	75	0.00544	0.00469	0.00619	0.005	0.408	0.005	0.033	0.005	0.005	0.028	0	0.00001	0.00324	0.00037	8.54993	0.27740	73.66611	0.54821
Nitrate (mg/l as N)	75	2.00333	1.86674	2.13993	2	150.25	0.05	3.4	1.6	2.4	3.35	0.8	0.35245	0.59368	0.06855	-0.32550	0.27740	0.73438	0.54821
Total Phosphorus (mg/l as P)	76	0.24342	-0.09053	0.57737	0.05	18.5	0.015	12.8	0.04	0.085	12.785	0.045	2.13576	1.46143	0.16764	8.68361	0.27564	75.59324	0.54480
Total Solids (mg/l)	75	414.85333	345.25025	484.45642	394	31114	183	2970	369	407	2787	38	91517.18090	302.51807	34.93178	8.35009	0.27740	71.46768	0.54821
Suspended Solids (mg/l)	76	19.75000	4.40062	35.09938	9	1501	2	590	5	15	588	10	4512.03000	67.17165	7.70512	8.37473	0.27564	71.90381	0.54480
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	1	21.00000					21	21	21										
TKN (mg/l as N)	75	4.09880	-2.52317	10.72077	0.6	307.41	0.3	250	0.5	1	249.7	0.5	828.36186	28.78128	3.32338	8.65716	0.27740	74.96370	0.54821
E. coli (CFU/100ml)	73	4073.04110	-605.84724	8751.92943	340	297332	10	154800	100	760	154790	660	402153277.90107	20053.75969	2347.11504	6.68012	0.28103	47.30087	0.55522
TOC (mg/l)	0																		
Hardness (mg/l)	75	285.12000	275.30843	294.93157	300	21384	122	341	268	314	219	46	1818.53946	42.64434	4.92414	-1.61494	0.27740	3.08531	0.54821
Chloride (mg/l)	2	55.50000	-420.98268	531.98268	55.5	111	18	93			75		2812.50000	53.03301	37.50000				
Dissolved Oxygen (mg/l)	59	9.93220	9.52462	10.33979	10.16	586	7.09	13.47	8.57	11	6.38	2.43	2.44617	1.56402	0.20362	0.08770	0.31118	-0.70377	0.61326
pH	58	8.00500	7.92516	8.08484	8.035	464.29	6.82	8.45	7.9	8.18	1.63	0.28	0.09219	0.30363	0.03987	-1.70384	0.31372	4.18975	0.61814
Copper (ug/l)	76	2.58947	2.28560	2.89335	2	196.8	2	8	2	6	0	0	1.76842	1.32982	0.15254	2.39018	0.27564	5.30655	0.54480
Iron (ug/l)	76	551.97368	421.16331	682.78406	370	41950	110	4100	285	575	3990	290	327698.71930	572.44975	65.66449	3.83141	0.27564	19.63231	0.54480
Zinc (ug/l)	76	7.41184	6.42126	8.40243	8.4	563.3	2.25	30	5	10	27.75	5	18.79206	4.33498	0.49726	2.00228	0.27564	9.05814	0.54480

Station: SLC-1																			
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	72	227.43056	216.07724	238.78387	236.5	16375	84	346	201	264.5	262	63.5	2334.27680	48.31435	5.69390	-0.66702	0.28290	0.53928	0.55883
Ammonia (mg/l as N)	73	0.13904	0.10986	0.16822	0.1	10.15	0.05	0.6	0.05	0.2	0.55	0.15	0.01564	0.12507	0.01464	1.79473	0.28103	2.94984	0.55522
BOD (mg/l)	32	1.50938	1.13544	1.88331	1.4	48.3	0.5	5	0.5	1.8	4.5	1.3	1.07572	1.03717	0.18335	1.50443	0.41446	3.04402	0.80937
COD (mg/l)	73	19.63425	17.91515	21.35334	17.8	1433.3	9	38	13.5	24	29	10.5	54.28839	7.36807	0.86237	0.63841	0.28103	-0.45652	0.55522
Cyanide (mg/l)	70	0.00513	0.00495	0.00531	0.005	0.359	0.005	0.011	0.005	0.005	0.006	0	0.00000	0.00074	0.00009	7.50257	0.28675	59.42078	0.56627
Nitrate (mg/l as N)	73	1.99589	1.72415	2.26763	1.7	145.7	0.4	9.2	1.4	2.3	8.8	0.9	1.35651	1.16469	0.13632	3.47020	0.28103	19.61531	0.55522
Total Phosphorus (mg/l as P)	73	0.12329	0.10949	0.13709	0.12	9	0.015	0.29	0.08	0.16	0.275	0.08	0.00350	0.05916	0.00692	0.68664	0.28103	0.19547	0.55522
Total Solids (mg/l)	71	516.42254	495.60036	537.24471	536	36666	266	660	451	589	394	138	7738.73320	87.97007	10.44013	-0.63337	0.28480	-0.15744	0.56251
Suspended Solids (mg/l)	72	34.02778	26.37894	41.67662	25	2450	2	174	11.5	44	172	32.5	1059.49218	32.54984	3.83604	2.06280	0.28290	5.29845	0.55883
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	71	875.64085	584.21674	1167.06495	470	62170.5	0.5	7100	180	1100	7099.5	920	1515893.15845	1231.21613	146.11847	3.05340	0.28480	11.04126	0.56251
TOC (mg/l)	0																		
Hardness (mg/l)	72	318.80556	303.41893	334.19218	336	22954	118	404	274	377	286	103	4287.39828	65.47823	7.71668	-0.81160	0.28290	0.18302	0.55883
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	56	9.58089	9.08792	10.07386	9.575	536.53	5.72	14.58	8.3	10.565	8.86	2.265	3.38858	1.84081	0.24599	0.43558	0.31900	0.14021	0.62826
pH	55	7.89382	7.80317	7.98446	7.95	434.16	6.79	8.49	7.69	8.13	1.7	0.44	0.11242	0.33530	0.04521	-0.80052	0.32174	0.97138	0.63351
Copper (ug/l)	1	2				2	2	2											
Iron (ug/l)	0																		
Zinc (ug/l)	1	14				14	14	14											

Station: SLC-17																			
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	74	229.48649	218.93355	240.03942	242.5	16982	96	328	199	263	232	64	2074.74639	45.54938	5.29501	-0.71586	0.27920	0.10421	0.55168
Ammonia (mg/l as N)	74	0.10351	0.08564	0.12139	0.05	7.66	0.01	0.3	0.05	0.1	0.29	0.05	0.00595	0.07717	0.00897	1.31175	0.27920	0.63735	0.55168
BOD (mg/l)	33	1.33636	0.96949	1.70324	1	44.1	0.5	4	0.5	1.7	3.5	1.2	1.07051	1.03466	0.18011	1.23402	0.40864	0.50967	0.79841
COD (mg/l)	73	19.97260	18.42981	21.51539	19.2	1458	9	41.2	14.7	24	32.2	9.3	43.72396	6.61241	0.77392	0.69327	0.28103	0.35140	0.55522
Cyanide (mg/l)	7	0.00500			0.005	0.035	0.005	0.005	0.005	0.005	0	0	0.00000	0.00000					
Nitrate (mg/l as N)	74	2.56486	2.32023	2.80950	2.5	189.8	0.4	5.4	1.8	3.4	5	1.6	1.11491	1.05589	0.12275	0.26493	0.27920	-0.42227	0.55168
Total Phosphorus (mg/l as P)	74	0.64311	-0.38779	1.67401	0.115	47.59	0.04	38.4	0.08	0.16	38.36	0.08	19.79929	4.44964	0.51726	8.60016	0.27920	73.97477	0.55168
Total Solids (mg/l)	73	516.63014	492.68003	540.58024	548	37714	10	649	466	585	639	119	10537.09741	102.65036	12.01432	-2.10059	0.28103	7.26943	0.55522
Suspended Solids (mg/l)	74	27.58108	21.68107	33.48109	20.5	2041	2	144	11	35	142	24	648.52073	25.46607	2.96037	2.20841	0.27920	6.37537	0.55168
Dissolved Solids (mg/l)	1	510.00000				510	510	510											
Sulfate (mg/l)	0																		
TKN (mg/l as N)	1	1.00000				1	1	1											
E. coli (CFU/100ml)	73	1118.52055	728.55655	1508.48454	500	81652	5	8800	220	990	8795	770	2793542.41971	1671.38937	195.62133	2.68874	0.28103	7.76989	0.55522
TOC (mg/l)	1	7.90000				7.9	7.9	7.9											
Hardness (mg/l)	74	325.62162	310.34872	340.89452	346	24096	128	408	275	380	280	105	4345.71788	65.92206	7.66328	-0.81435	0.27920	-0.11441	0.55168
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	57	9.73018	9.24820	10.21215	9.29	554.62	6.14	15.35	8.31	11.1	9.21	2.79	3.29952	1.81646	0.24060	0.59179	0.31633	0.30051	0.62313
pH	56	7.84893	7.76159	7.93627	7.855	439.54	6.86	8.66	7.715	8.005	1.8	0.29	0.10637	0.32615	0.04358	-0.27880	0.31900	1.17915	0.62826
Copper (ug/l)	6	4.33333	2.89953	5.76714	4.5	26	2	6	4	5	4	1	1.86667	1.36626	0.55777	-0.88877	0.84515	1.33929	1.74078
Iron (ug/l)	0																		
Zinc (ug/l)	6	15.00000	9.25200	20.74800	15	90	10	20	10	20	10	10	30.00000	5.47723	2.23607	0.00000	0.84515	-3.33333	1.74078

Station: SLT-12

	Valid N	Mean	-95.000%	Confid.	+95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Std.Err. Skewness	Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	78	114.74359	100.65301	128.83417	93.5	8950	36	254	67	145	218	78	3905.69963	62.49560	7.07623	0.83906	0.27221	-0.50687	0.53818	
Ammonia (mg/l as N)	78	0.06923	0.05688	0.08158	0.05	5.4	0.05	0.4	0.05	0.05	0.35	0	0.00300	0.05479	0.00620	4.28349	0.27221	20.88695	0.53818	
BOD (mg/l)	38	1.18289	0.85795	1.50784	1	44.95	0.05	4.4	0.5	1.5	4.35	1	0.97733	0.98860	0.16037	2.03250	0.38282	4.25445	0.74970	
COD (mg/l)	1	13.00000				13	13	13												
Cyanide (mg/l)	1	0.00500				0.005	0.005	0.005												
Nitrate (mg/l as N)	78	1.14359	0.96250	1.32468	0.9	89.2	0.2	3.2	0.5	1.6	3	1.1	0.64509	0.80317	0.09094	0.91361	0.27221	-0.13740	0.53818	
Total Phosphorus (mg/l as P)	77	0.09643	0.07656	0.11630	0.07	7.425	0.015	0.56	0.05	0.1	0.545	0.05	0.00766	0.08753	0.00998	3.10254	0.27391	12.31940	0.54146	
Total Solids (mg/l)	79	250.22785	218.66425	281.79144	208	19768	110	977	148	336	867	188	19857.48588	140.91659	15.85436	2.47598	0.27054	9.22038	0.53495	
Suspended Solids (mg/l)	79	34.62025	17.14231	52.09820	13	2735	2	600	6	33	598	27	6088.80266	78.03078	8.77915	5.86608	0.27054	38.68946	0.53495	
Dissolved Solids (mg/l)	77	205.70130	185.54959	225.85301	187	15839	98	399	125	278	301	153	7882.76487	88.78494	10.11798	0.55495	0.27391	-0.90410	0.54146	
Sulfate (mg/l)	79	33.74684	30.85862	36.63505	32	2666	18	110	25	39	92	14	166.26842	12.89451	1.45075	2.82078	0.27054	14.58522	0.53495	
TKN (mg/l as N)	21	0.36667	0.31030	0.42303	0.3	7.7	0.2	0.6	0.3	0.4	0.4	0.1	0.01533	0.12383	0.02702	0.71148	0.50119	-0.15073	0.97194	
E. coli (CFU/100ml)	74	655.94595	165.67097	1146.22092	70	48540	5	17000	10	350	16995	340	4478141.55868	2116.16199	245.99883	6.65990	0.27920	50.15883	0.55168	
TOC (mg/l)	21	3.08810	2.64280	3.53339	3.2	64.85	0.25	4.6	2.8	3.8	4.35	1	0.95698	0.97825	0.21347	-1.23113	0.50119	2.30188	0.97194	
Hardness (mg/l)	79	152.31646	134.75209	169.88082	120	12033	54	382	96	196	328	100	6149.16780	78.41663	8.82256	0.92631	0.27054	-0.16222	0.53495	
Chloride (mg/l)	22	9.31818	6.03533	12.60103	6	205	2.5	26	2.5	16	23.5	13.5	54.82251	7.40422	1.57859	0.91577	0.49096	-0.55910	0.95278	
Dissolved Oxygen (mg/l)	61	8.78869	8.16963	9.40774	9.1	536.11	4.01	14.1	6.97	10.42	10.09	3.45	5.84250	2.41713	0.30948	-0.03243	0.30627	-0.67834	0.60384	
pH	62	7.73081	7.63967	7.82195	7.74	479.31	6.91	8.6	7.5	7.89	1.69	0.39	0.12880	0.35888	0.04558	0.17374	0.30390	-0.24510	0.59929	
Copper (ug/l)	21	2.50000	1.83691	3.16309	2	52.5	2	8.2	2	2	6.2	0	2.12200	1.45671	0.31788	3.43171	0.50119	12.56583	0.97194	
Iron (ug/l)	21	628.09524	399.47327	856.71721	460	13190	120	1800	290	650	1680	360	252256.19048	502.25112	109.60018	1.56676	0.50119	1.52183	0.97194	
Zinc (ug/l)	21	6.31429	4.71173	7.91684	6.5	132.6	2.25	14	2.25	8.8	11.75	6.55	12.39454	3.52059	0.76826	0.58381	0.50119	-0.20509	0.97194	

Station: STJ-5

	Valid N	Mean	-95.000%	Confid.	+95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Std.Err. Skewness	Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	72	203.47222	193.39759	213.54685	214.5	14650	92	285	173	235	193	62	1838.08372	42.87288	5.05262	-0.38802	0.28290	-0.46287	0.55883	
Ammonia (mg/l as N)	71	0.11549	0.08846	0.14252	0.05	8.2	0.05	0.7	0.05	0.1	0.65	0.05	0.01304	0.11420	0.01355	2.67754	0.28480	9.38609	0.56251	
BOD (mg/l)	35	3.42000	2.41353	4.42647	2.4	119.7	0.5	12	1.7	4.4	11.5	2.7	8.58459	2.92995	0.49525	1.98003	0.39769	3.65118	0.77779	
COD (mg/l)	71	26.09718	24.45627	27.73810	26	1852.9	2.5	48	22	30.8	45.5	8.8	48.06056	6.93257	0.82275	-0.36873	0.28480	2.25049	0.56251	
Cyanide (mg/l)	13	0.00538	0.00471	0.00606	0.005	0.07	0.005	0.009	0.005	0.005	0.004	0	0.00000	0.00112	0.00031	3.27726	0.61634	11.02915	1.19087	
Nitrate (mg/l as N)	71	20.05493	-15.84608	55.95594	1.4	1423.9	0.05	1280	0.8	3	1279.95	2.2	23005.46458	151.67552	18.00057	8.42419	0.28480	70.97765	0.56251	
Total Phosphorus (mg/l as P)	71	0.17324	0.14946	0.19702	0.15	12.3	0.04	0.52	0.1	0.21	0.48	0.11	0.01010	0.10048	0.01192	1.72898	0.28480	3.75751	0.56251	
Total Solids (mg/l)	72	451.05556	433.75021	468.36090	432	32476	307	709	412	464	402	52	5423.34989	73.64339	8.67896	1.47400	0.28290	2.75791	0.55883	
Suspended Solids (mg/l)	72	52.00000	38.56059	65.43941	41	3744	2	424	21.5	63.5	422	42	3270.90141	57.19179	6.74012	4.37997	0.28290	25.58037	0.55883	
Dissolved Solids (mg/l)	68	381.27941	363.70073	398.85810	378	25927	243	641	339.5	408.5	398	69	5274.20435	72.62372	8.80692	0.93303	0.29076	2.19504	0.57400	
Sulfate (mg/l)	70	60.74286	54.39358	67.09214	56	4252	11	150	47	66	139	19	709.06335	26.62824	3.18268	1.45133	0.28675	2.55392	0.56627	
TKN (mg/l as N)	70	1.19429	1.09387	1.29470	1.2	83.6	0.2	2.6	0.9	1.4	2.4	0.5	0.17736	0.42114	0.05034	0.88001	0.28675	1.28582	0.56627	
E. coli (CFU/100ml)	66	1182.65152	248.90363	2116.39940	200	78055	5	28000	80	450	27995	370	14427367.09207	3798.33741	467.54302	5.90703	0.29495	39.51701	0.58207	
TOC (mg/l)	0																			
Hardness (mg/l)	72	280.19444	267.17635	293.21253	282	20174	142	402	254	310	260	56	3069.03208	55.39885	6.52882	-0.13560	0.28290	0.31980	0.55883	
Chloride (mg/l)	1	31.00000				31	31	31												
Dissolved Oxygen (mg/l)	55	10.31527	9.75519	10.87535	10.01	567.34	5.1	16.57	9.04	11.89	11.47	2.85	4.29224	2.07177	0.27936	0.46318	0.32174	0.77277	0.63351	
pH	57	7.92281	7.82357	8.02204	7.97	451.6	6.97	8.63	7.8	8.17	1.66	0.37	0.13987	0.37400	0.04954	-0.78340	0.31633	0.46259	0.62313	
Copper (ug/l)	71	4.85634	4.18744	5.52524	4.7	344.8	2	17	2	6	15	4	7.98621	2.82599	0.33538	1.49518	0.28480	3.84256	0.56251	
Iron (ug/l)	71	2139.01408	1553.51784	2724.51033	1400	151870	210	18000	720	2500	17790	1780	6118794.72837	2473.61976	293.56466	4.22541	0.28480	24.26170	0.56251	
Zinc (ug/l)	71	13.66690	11.41155	15.92225	10	970.35	2.25	60	10	15	57.75	5	90.79164	9.52846	1.13082	2.40556	0.28480	7.57321	0.56251	

Station: STM-2

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Std.Err. Skewness	Std.Err. Skewness	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	74	184.16216	173.32435	194.99998	184	13628	71	300	155	214	229	59	2188.27471	46.77900	5.43795	-0.02895	0.27920	-0.03026	0.55168
Ammonia (mg/l as N)	74	0.19122	0.14765	0.23479	0.1	14.15	0.05	1.1	0.05	0.3	1.05	0.25	0.03537	0.18806	0.02186	2.13153	0.27920	6.55177	0.55168
BOD (mg/l)	35	4.42486	3.08482	5.40090	3.7	148.5	0.5	14	1.7	5.6	13.5	3.9	11.36487	3.37118	0.56983	1.51250	0.39769	2.25869	0.77779
COD (mg/l)	74	28.11757	25.93262	30.30251	27.1	2080.7	5.8	66	23	34	60.2	11	88.94037	9.43082	1.09631	0.90187	0.27920	3.13637	0.55168
Cyanide (mg/l)	73	0.03982	-0.02830	0.10794	0.005	2.907	0.005	2.5	0.005	0.005	2.495	0	0.08524	0.29195	0.03417	8.54319	0.28103	72.99052	0.55522
Nitrate (mg/l as N)	74	3.45338	2.68877	4.21798	2.45	255.55	0.05	13	1	4.7	12.95	3.7	10.89167	3.30025	0.38365	1.31017	0.27920	1.20939	0.55168
Total Phosphorus (mg/l as P)	74	0.25595	0.23233	0.27956	0.24	18.94	0.07	0.62	0.19	0.32	0.55	0.13	0.01039	0.10193	0.01185	1.20201	0.27920	2.95681	0.55168
Total Solids (mg/l)	74	532.91892	509.93879	555.89905	531.5	39436	240	977	478	581	737	103	9838.37690	99.18859	11.53044	0.88198	0.27920	5.06569	0.55168
Suspended Solids (mg/l)	74	70.77027	56.63314	84.90740	60.5	5237	6	388	32	82	382	50	3723.41225	61.01977	7.09340	2.58446	0.27920	9.88014	0.55168
Dissolved Solids (mg/l)	1	200.00000				200	200	200											
Sulfate (mg/l)	0																		
TKN (mg/l as N)	74	1.58919	1.41848	1.75990	1.45	117.6	0.2	5.7	1.1	2	5.5	0.9	0.54290	0.73681	0.08565	2.56667	0.27920	12.45983	0.55168
E. coli (CFU/100ml)	69	3734.05797	164.67040	7303.44555	530	257650	10	120000	210	1800	119990	1590	220773306.82012	14858.44227	1788.74625	7.31311	0.28874	57.15985	0.57010
TOC (mg/l)	0																		
Hardness (mg/l)	74	290.28378	275.23867	305.32890	297	21481	128	453	252	340	325	88	4217.05535	64.93886	7.54899	-0.49341	0.27920	0.20278	0.55168
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	55	10.01091	9.40239	10.61943	9.85	550.6	5.42	15.61	8.41	11.24	10.19	2.83	5.06683	2.25096	0.30352	0.44638	0.32174	0.24686	0.63351
pH	57	7.87912	7.77389	7.98436	7.9	449.11	6.9	8.78	7.62	8.06	1.88	0.44	0.15730	0.39662	0.05253	0.00508	0.31633	0.08258	0.62313
Copper (ug/l)	73	6.25890	5.50673	7.01108	6	456.9	2	18	4.3	7.9	16	3.6	10.39301	3.22382	0.37732	1.26798	0.28103	2.76191	0.55522
Iron (ug/l)	73	2673.69863	2048.53467	3298.86259	2100	195180	10	17000	1000	3300	16990	2300	7179498.63014	2679.45864	313.60691	2.94841	0.28103	12.07670	0.55522
Zinc (ug/l)	73	18.00959	15.41821	20.60097	15	1314.7	7.2	60	10	20	52.8	10	123.35810	11.10667	1.29994	1.73082	0.28103	3.03125	0.55522

Station: STM-11

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Std.Err. Skewness	Std.Err. Skewness	Kurtosis	Kurtosis
Alkalinity (mg/l)	75	181.84000	172.55881	191.12119	184	13638	84	270	159	209	186	50	1627.24432	40.33912	4.65796	-0.18295	0.27740	-0.27618	0.54821
Ammonia (mg/l as N)	75	0.14333	0.11100	0.17567	0.1	10.75	0.05	0.7	0.05	0.2	0.65	0.15	0.01975	0.14054	0.01623	1.98179	0.27740	4.02311	0.54821
BOD (mg/l)	35	3.38571	2.65978	4.11165	2.8	118.5	0.5	9.3	1.6	4.9	8.8	3.3	4.46597	2.11328	0.35721	1.00015	0.39769	0.47742	0.77779
COD (mg/l)	75	27.47067	25.41905	29.52228	27.1	2060.3	7	54	22	33	47	11	79.51291	8.91700	1.02965	0.06865	0.27740	0.39411	0.54821
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	75	3.87867	3.10611	4.65123	3.1	290.9	0.05	13	1.3	5.5	12.95	4.2	11.27488	3.35781	0.38773	1.22960	0.27740	0.87247	0.54821
Total Phosphorus (mg/l as P)	75	0.28493	0.25645	0.31342	0.28	21.37	0.09	0.69	0.19	0.34	0.6	0.15	0.01533	0.12380	0.01429	1.08173	0.27740	1.59359	0.54821
Total Solids (mg/l)	75	594.40000	567.27043	621.52957	581	44580	300	866	507	680	566	173	13903.72973	117.91408	13.61554	0.11186	0.27740	-0.51887	0.54821
Suspended Solids (mg/l)	75	81.92000	64.98836	98.85164	69	6144	2	420	32	102	418	70	5415.56108	73.59050	8.49750	2.48666	0.27740	8.71277	0.54821
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	72	1586.66667	735.26858	2438.06475	465	114240	10	25000	170	1550	24990	1380	#####	3623.14819	426.99211	5.06157	0.28290	28.72023	0.55883
TOC (mg/l)	0																		
Hardness (mg/l)	75	302.65333	287.65628	317.65039	310	22699	126	478	260	359	352	99	4248.71604	65.18218	7.52659	-0.38564	0.27740	0.23401	0.54821
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	56	10.15321	9.67258	10.63385	10.06	568.58	6.94	15.85	9.085	11.32	8.91	2.235	3.22107	1.79473	0.23983	0.47907	0.31900	0.73935	0.62826
pH	57	7.86649	7.76707	7.96591	7.81	448.39	6.98	8.89	7.62	8.14	1.91	0.52	0.14039	0.37468	0.04963	0.20606	0.31633	0.28928	0.62313
Copper (ug/l)	10	5.36000	2.67083	8.04917	4.4	53.6	2	11	2	9	9	7	14.13156	3.75920	1.18876	0.37606	0.68704	-1.82910	1.33425
Iron (ug/l)	10	1887.00000	831.08404	2942.91596	1750	18870	230	5000	740	2800	4770	2060	#####	1476.06873	466.77392	0.91681	0.68704	0.80815	1.33425
Zinc (ug/l)	10	10.37500	6.09422	14.65578	9.7	103.75	2.25	24	6.1	13	21.75	6.9	35.80958	5.98411	1.89234	1.19498	0.68704	2.43703	1.33425

Station: STM-37

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Std.Err. Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	72	185.16667	176.18474	194.14860	183.5	13332	100	288	166	206	188	40	1460.98592	38.22285	4.50461	0.13342	0.28290	0.37831	0.55883
Ammonia (mg/l as N)	71	0.11761	0.09136	0.14385	0.05	8.35	0.05	0.6	0.05	0.1	0.55	0.05	0.01229	0.11087	0.01316	2.31389	0.28480	5.99441	0.56251
BOD (mg/l)	35	3.21143	2.64070	3.78216	3	112.4	1.2	8.3	1.7	4.2	7.1	2.5	2.76045	1.66146	0.28084	1.10843	0.39769	1.25973	0.77779
COD (mg/l)	71	28.16479	26.16393	30.16565	28	1999.7	2.5	57.2	23.4	32.3	54.7	8.9	71.45803	8.45329	1.00322	0.54625	0.28480	2.83970	0.56251
Cyanide (mg/l)	72	0.00585	0.00524	0.00646	0.005	0.421	0.005	0.02	0.005	0.005	0.015	0	0.00001	0.00259	0.00031	4.10230	0.28290	18.37859	0.55883
Nitrate (mg/l as N)	71	3.78662	2.93461	4.63863	3	268.85	0.05	18	0.8	5.4	17.95	4.6	12.95714	3.59960	0.42719	1.47696	0.28480	2.77119	0.56251
Total Phosphorus (mg/l as P)	71	0.25859	0.22955	0.28763	0.24	18.36	0.05	0.79	0.18	0.32	0.74	0.14	0.01506	0.12270	0.01456	1.75373	0.28480	5.80853	0.56251
Total Solids (mg/l)	72	570.27778	552.16817	588.38739	575	41060	397	727	515	623.5	330	108.5	5939.16119	77.06595	9.08231	-0.14646	0.28290	-0.46880	0.55883
Suspended Solids (mg/l)	72	71.23611	58.86330	83.60893	67.5	5129	4	264	31	92.5	260	61.5	2772.32375	52.65286	6.20520	1.46358	0.28290	3.18608	0.55883
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	70	1418.00000	862.98992	1973.01008	515	99260	10	11000	180	1800	10990	1620	5417984.34783	2327.65641	278.20815	2.90957	0.28675	8.77478	0.56627
TOC (mg/l)	0																		
Hardness (mg/l)	72	307.41667	293.59413	321.23920	317	22134	110	442	269	344	332	75	3460.04930	58.82218	6.93226	-0.74890	0.28290	1.18519	0.55883
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	53	9.82811	9.37015	10.28608	9.9	520.89	6.42	13.64	8.76	10.7	7.22	1.94	2.76057	1.66150	0.22822	0.24210	0.32745	-0.29655	0.64442
pH	55	7.88145	7.79986	7.96305	7.9	433.48	7.1	8.41	7.72	8.1	1.31	0.38	0.09111	0.30184	0.04070	-0.66247	0.32174	0.22300	0.63351
Copper (ug/l)	11	4.23636	2.56026	5.91246	4.4	46.6	2	9.2	2	5.9	7.2	3.9	6.22455	2.49490	0.75224	0.74945	0.66069	-0.36861	1.27942
Iron (ug/l)	9	1440.00000	702.14874	2177.85126	1100	12960	240	3200	810	1900	2960	1090	921425.00000	959.90885	319.96962	0.64934	0.71714	-0.30096	1.39971
Zinc (ug/l)	11	8.94091	6.56272	11.31910	8.2	98.35	2.25	15	6.8	12	12.75	5.2	12.53141	3.53997	1.06734	-0.17762	0.66069	0.16775	1.27942

Station: TC- .5

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Std.Err. Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	72	173.62500	166.62245	180.62755	174	12501	112	259	153.5	194.5	147	41	888.01232	29.79954	3.51191	0.05474	0.28290	-0.21429	0.55883
Ammonia (mg/l as N)	73	0.15699	0.10028	0.21370	0.1	11.46	0.01	2.1	0.05	0.2	2.09	0.15	0.05908	0.24306	0.02845	7.28468	0.28103	58.55488	0.55522
BOD (mg/l)	34	1.21765	0.85878	1.57652	0.75	41.4	0.5	4.6	0.5	1.5	4.1	1	1.05786	1.02852	0.17639	1.76165	0.40305	2.84924	0.78790
COD (mg/l)	73	16.23699	14.60885	17.86512	14	1185.3	2.5	35.9	12	19	33.4	7	48.69514	6.97819	0.81674	0.86980	0.28103	0.56468	0.55522
Cyanide (mg/l)	72	0.00528	0.00494	0.00562	0.005	0.38	0.005	0.015	0.005	0.005	0.01	0	0.00000	0.00145	0.00017	5.87861	0.28290	35.38749	0.55883
Nitrate (mg/l as N)	73	1.71644	1.56065	1.87223	1.7	125.3	0.6	4.2	1.2	2.1	3.6	0.9	0.44584	0.66771	0.07815	0.77628	0.28103	1.47347	0.55522
Total Phosphorus (mg/l as P)	73	0.07308	0.06477	0.08139	0.07	5.335	0.015	0.25	0.05	0.09	0.235	0.04	0.00127	0.03561	0.00417	1.64235	0.28103	7.07977	0.55522
Total Solids (mg/l)	72	368.13889	353.37013	382.90765	374.5	26506	209	487	334	418	278	84	3949.98044	62.84887	7.40681	-0.69973	0.28290	0.08756	0.55883
Suspended Solids (mg/l)	72	14.12500	11.17837	17.07163	10.5	1017	2	64	5	16.5	62	11.5	157.23768	12.53944	1.47779	1.86047	0.28290	3.80727	0.55883
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	72	0.73750	0.65967	0.81533	0.7	53.1	0.2	2.6	0.5	0.9	2.4	0.4	0.10970	0.33121	0.03903	2.51388	0.28290	13.02894	0.55883
E. coli (CFU/100ml)	71	1102.00000	514.73520	1689.26480	380	78242	5	18000	150	810	17995	660	6155815.42857	2481.09158	294.45140	5.12382	0.28480	31.60926	0.56251
TOC (mg/l)	0																		
Hardness (mg/l)	71	236.16901	226.11188	246.22615	244	16768	155	336	202	270	181	68	1805.37103	42.48966	5.04259	-0.20745	0.28480	-0.75950	0.56251
Chloride (mg/l)	71	39.19718	36.73229	41.66208	41	2783	16	61	31	46	45	15	108.44628	10.41375	1.23589	-0.16269	0.28480	-0.28208	0.56251
Dissolved Oxygen (mg/l)	57	9.40965	8.96279	9.85651	9.21	536.35	6.4	12.96	8.06	10.62	6.56	2.56	2.83630	1.68413	0.22307	0.34172	0.31633	-0.62895	0.62313
pH	55	7.85782	7.76934	7.94630	7.9	432.18	6.72	8.47	7.68	8.07	1.75	0.39	0.10712	0.32729	0.04413	-0.97736	0.32174	1.89526	0.63351
Copper (ug/l)	72	4.22500	3.64268	4.80732	4	304.2	2	14	2	5.1	12	3.1	6.14077	2.47806	0.29204	1.65520	0.28290	4.01874	0.55883
Iron (ug/l)	72	836.94444	681.00106	992.88783	685	60260	90	3400	360	1150	3310	790	440393.34898	663.62139	78.20853	1.65226	0.28290	3.42259	0.55883
Zinc (ug/l)	72	39.60139	0.77730	78.42548	16	2851.3	4.5	1400	10	20	1395.5	10	27296.65169	165.21698	19.47101	8.11357	0.28290	67.36236	0.55883

Station: TC-1																			
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Std.Err. Skewness	Std.Err. Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	70	179.50000	172.85509	186.14491	187	12565	82	226	166	200	144	34	776.63043	27.86809	3.33087	-1.28848	0.28675	1.74567	0.56627
Ammonia (mg/l as N)	72	0.17917	0.12382	0.23451	0.1	12.9	0.05	1.9	0.1	0.2	1.85	0.1	0.05548	0.23553	0.02776	5.89825	0.28290	41.33670	0.55883
BOD (mg/l)	33	1.20000	0.94864	1.45136	1.1	39.6	0.5	3	0.5	1.8	2.5	1.3	0.50250	0.70887	0.12340	0.80072	0.40864	-0.20732	0.79841
COD (mg/l)	72	18.02778	16.13639	19.91916	16.5	1298	2.5	45	12.75	20.8	42.5	8.05	64.78372	8.04883	0.94856	1.08084	0.28290	1.35126	0.55883
Cyanide (mg/l)	70	0.00507	0.00500	0.00515	0.005	0.355	0.005	0.007	0.005	0.005	0.002	0	0.00000	0.00031	0.00004	4.77014	0.28675	24.26931	0.56627
Nitrate (mg/l as N)	72	2.09444	1.89991	2.28898	2.1	150.8	0.2	4.4	1.6	2.55	4.2	0.95	0.68532	0.82784	0.09756	0.31094	0.28290	0.12136	0.55883
Total Phosphorus (mg/l as P)	72	0.09278	0.07990	0.10566	0.08	6.68	0.015	0.35	0.07	0.11	0.335	0.04	0.00301	0.05482	0.00646	2.73603	0.28290	10.63619	0.55883
Total Solids (mg/l)	70	405.78571	392.10250	419.46893	424.5	28405	203	500	396	434	297	38	3293.15631	57.38603	6.85894	-1.89630	0.28675	4.20568	0.56627
Suspended Solids (mg/l)	70	17.15714	13.72101	20.59327	13	1201	2	68	6	25	66	19	207.67060	14.41078	1.72242	1.45731	0.28675	1.79235	0.56627
Dissolved Solids (mg/l)	69	370.17826	353.15835	387.19817	388	25542.3	4.3	484	357	408	479.7	51	5019.65143	70.84950	8.52928	-2.71127	0.28874	10.54784	0.57010
Sulfate (mg/l)	0																		
TKN (mg/l as N)	2	0.80000	-1.74124	3.34124	0.8	1.6	0.6	1			0.4		0.08000	0.28284	0.20000				
E. coli (CFU/100ml)	70	1356.55714	744.87027	1968.24401	355	94959	5	13000	140	960	12995	820	6581036.83002	2565.35316	306.61835	2.97955	0.28675	9.27314	0.56627
TOC (mg/l)	0																		
Hardness (mg/l)	70	249.15714	239.04299	259.27130	265	17441	90	306	229	278	216	49	1799.26480	42.41774	5.06989	-1.48876	0.28675	2.11164	0.56627
Chloride (mg/l)	1	14.00000				14	14	14											
Dissolved Oxygen (mg/l)	56	9.59750	9.16663	10.02837	9.535	537.46	6.46	13.22	8.275	10.865	6.76	2.59	2.58860	1.60891	0.21500	0.05922	0.31900	-0.53642	0.62826
pH	54	7.84981	7.77507	7.92456	7.85	423.89	7.03	8.36	7.7	8.03	1.33	0.33	0.07499	0.27384	0.03727	-0.72705	0.32456	1.10543	0.63889
Copper (ug/l)	12	3.91667	2.60449	5.22885	4	47	2	8	2	5	6	3	4.26515	2.06522	0.59618	0.80174	0.63730	-0.23396	1.23225
Iron (ug/l)	0																		
Zinc (ug/l)	12	17.16667	12.84179	21.49154	20	206	5	30	10.5	20	25	9.5	46.33333	6.80686	1.96497	-0.17256	0.63730	0.09251	1.23225

Station: TC-2																			
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Std.Err. Skewness	Std.Err. Kurtosis	Std.Err. Kurtosis	
Alkalinity (mg/l)	71	201.39437	194.94504	207.84369	208	14299	112	270	183	219	158	36	742.41368	27.24727	3.23366	-0.83794	0.28480	1.41877	0.56251
Ammonia (mg/l as N)	73	0.09863	0.05546	0.14180	0.05	7.2	0.05	1.6	0.05	0.1	1.55	0.05	0.03423	0.18502	0.02166	7.63782	0.28103	62.33459	0.55522
BOD (mg/l)	33	1.16364	0.84527	1.48200	1	38.4	0.5	4.5	0.5	1.4	4	0.9	0.80614	0.89785	0.15630	1.90893	0.40864	4.74063	0.79841
COD (mg/l)	73	16.62329	14.81888	18.42770	15.9	1213.5	7	45.3	11	20	38.3	9	59.81042	7.73372	0.90516	1.40981	0.28103	2.48400	0.55522
Cyanide (mg/l)	73	0.00511	0.00496	0.00526	0.005	0.373	0.005	0.01	0.005	0.005	0.005	0	0.00000	0.00064	0.00007	6.90149	0.28103	50.88348	0.55522
Nitrate (mg/l as N)	73	0.61027	0.48012	0.74043	0.4	44.55	0.05	3.3	0.4	0.6	3.25	0.2	0.31118	0.55783	0.06529	3.24506	0.28103	11.96954	0.55522
Total Phosphorus (mg/l as P)	72	0.05306	0.04428	0.06184	0.04	3.82	0.015	0.19	0.03	0.07	0.175	0.04	0.00140	0.03737	0.00440	1.36107	0.28290	1.92948	0.55883
Total Solids (mg/l)	71	405.15493	396.17654	414.13332	399	28766	342	632	385	422	290	37	1438.84708	37.93214	4.50172	3.07109	0.28480	17.46129	0.56251
Suspended Solids (mg/l)	71	16.07042	12.13827	20.00258	10	1141	2	71	6	18	69	12	275.98068	16.61267	1.97156	1.96189	0.28480	3.42767	0.56251
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	1	0.50000				0.5	0.5	0.5											
E. coli (CFU/100ml)	70	1094.72857	317.65067	1871.80647	355	76631	5	26100	150	650	26095	500	10620992.98323	3258.98650	389.52339	6.84041	0.28675	51.82373	0.56627
TOC (mg/l)	0																		
Hardness (mg/l)	71	268.56338	261.16608	275.96068	276	19068	181	318	257	290	137	33	976.70664	31.25231	3.70897	-1.10740	0.28480	0.80546	0.56251
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	56	9.69054	9.28781	10.09326	9.735	542.67	6.7	13.64	8.41	10.775	6.94	2.365	2.26143	1.50380	0.20095	0.35154	0.31900	0.07089	0.62826
pH	55	7.84145	7.76317	7.91974	7.88	431.28	7.01	8.46	7.76	8	1.45	0.24	0.08386	0.28959	0.03905	-0.85376	0.32174	1.38987	0.63351
Copper (ug/l)	2	2.00000			2	4	2	2			0		0.00000	0.00000	0.00000				
Iron (ug/l)	2	625.00000	-455.02740	1705.02740	625	1250	540	710			170		14450.00000	120.20815	85.00000				
Zinc (ug/l)	2	7.50000	-24.26551	39.26551	7.5	15	5	10			5		12.50000	3.53553	2.50000				

Station: TC-MC

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	43	210.04651	195.60374	224.48928	206	9032	110	286	186	249	176	63	2202.37874	46.92951	7.15668	-0.41136	0.36136	-0.37845	0.70904
Ammonia (mg/l as N)	53	0.05472	0.04852	0.06092	0.05	2.9	0.05	0.2	0.05	0.05	0.15	0	0.00051	0.02250	0.00309	5.69821	0.32745	35.06082	0.64442
BOD (mg/l)	22	0.63864	0.45079	0.82649	0.5	14.05	0.05	2.2	0.5	0.5	2.15	0	0.17951	0.42368	0.09033	2.67187	0.49096	8.78010	0.95278
COD (mg/l)	52	6.62308	4.99966	8.24650	2.5	344.4	2.5	23	2.5	8.6	20.5	6.1	34.00299	5.83121	0.80864	1.49054	0.33041	1.30867	0.65009
Cyanide (mg/l)	49	0.00500			0.005	0.245	0.005	0.005	0.005	0.005	0	0	0.00000	0.00000					
Nitrate (mg/l as N)	53	2.57830	2.37706	2.77954	2.6	136.65	0.05	4	2.2	3	3.95	0.8	0.53303	0.73009	0.10029	-0.94792	0.32745	2.86694	0.64442
Total Phosphorus (mg/l as P)	52	0.07356	0.06006	0.08706	0.055	3.825	0.015	0.25	0.045	0.08	0.235	0.035	0.00235	0.04850	0.00673	1.77113	0.33041	2.87200	0.65009
Total Solids (mg/l)	53	304.64151	290.21981	319.06321	304	16146	129	414	275	350	285	75	2737.58055	52.32189	7.18696	-0.66925	0.32745	1.34976	0.64442
Suspended Solids (mg/l)	52	6.88462	4.16653	9.60270	2	358	2	40	2	6	38	4	95.31976	9.76318	1.35391	2.42576	0.33041	5.00649	0.65009
Dissolved Solids (mg/l)	22	289.63636	266.24247	313.03026	284.5	6372	183	410	256	334	227	78	2783.95671	52.76321	11.24915	0.15371	0.49096	0.20861	0.95278
Sulfate (mg/l)	24	21.75000	19.51126	23.98874	21	522	12	31	18.5	25.5	19	7	28.10870	5.30176	1.08222	0.22128	0.47226	-0.69272	0.91778
TKN (mg/l as N)	53	0.26698	0.20354	0.33042	0.2	14.15	0.05	1	0.1	0.3	0.95	0.2	0.05298	0.23016	0.03162	1.54588	0.32745	2.01282	0.64442
E. coli (CFU/100ml)	50	913.80000	232.95155	1594.64845	140	45690	5	15000	70	470	14995	400	5739345.46939	2395.69311	338.80217	4.69374	0.33660	25.28462	0.66191
TOC (mg/l)	21	1.12857	0.62243	1.63472	0.7	23.7	0.25	4.7	0.25	1.4	4.45	1.15	1.23639	1.11193	0.24264	2.00427	0.50119	4.58206	0.97194
Hardness (mg/l)	52	238.67308	223.40698	253.93917	244.5	12411	126	332	189.5	285	206	95.5	3006.85181	54.83477	7.60421	-0.29015	0.33041	-0.93689	0.65009
Chloride (mg/l)	24	9.37500	7.23700	11.51300	8	225	5	29	7	9.5	24	2.5	25.63587	5.06319	1.03352	2.91764	0.47226	9.91855	0.91778
Dissolved Oxygen (mg/l)	37	9.69000	9.27983	10.10017	9.97	358.53	4.9	12.17	9.52	10.3	7.27	0.78	1.51343	1.23022	0.20225	-0.09092	0.38759	6.28604	0.75872
pH	39	7.52897	7.42265	7.63529	7.47	293.63	7.05	8.42	7.29	7.62	1.37	0.33	0.10757	0.32798	0.05252	0.87505	0.37822	0.29068	0.74100
Copper (ug/l)	53	2.64528	2.00926	3.28130	2	140.2	2	17	2	2	15	0	5.32445	2.30748	0.31696	5.13742	0.32745	29.90162	0.64442
Iron (ug/l)	52	293.09615	168.17159	418.02072	125	15241	10	2200	57.5	315	2190	257.5	201350.01018	448.72041	62.22633	2.91737	0.33041	8.88884	0.65009
Zinc (ug/l)	53	8.59528	5.48977	11.70079	5	455.55	2.25	77	5	10	74.75	5	126.94051	11.26679	1.54761	4.74049	0.32745	26.81933	0.64442

Station: TR-9

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	79	195.00000	187.25735	202.74265	199	15405	112	269	176	219	157	43	1194.89744	34.56729	3.88912	-0.50551	0.27054	-0.00057	0.53495
Ammonia (mg/l as N)	79	0.07278	0.05647	0.08910	0.05	5.75	0.05	0.6	0.05	0.05	0.55	0	0.00531	0.07285	0.00820	5.38388	0.27054	35.63783	0.53495
BOD (mg/l)	37	1.95676	1.55654	2.35698	1.8	72.4	0.5	6.5	1.3	2.5	6	1.2	1.44086	1.20036	0.19734	1.65351	0.38759	4.68223	0.75872
COD (mg/l)	0																		
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	79	2.92861	2.49768	3.35954	3	231.36	0.05	7.9	1.2	4.4	7.85	3.2	3.70137	1.92389	0.21646	0.32371	0.27054	-0.67308	0.53495
Total Phosphorus (mg/l as P)	79	0.08703	0.07263	0.10142	0.07	6.875	0.015	0.46	0.05	0.1	0.445	0.05	0.00413	0.06428	0.00723	3.22072	0.27054	14.56582	0.53495
Total Solids (mg/l)	79	398.31646	384.53809	412.09482	390	31467	251	691	360	425	440	65	3783.96267	61.51392	6.92086	1.69231	0.27054	6.70035	0.53495
Suspended Solids (mg/l)	79	19.64557	12.40643	26.88471	11	1552	2	252	5	20	250	15	1044.53944	32.31934	3.63621	5.27394	0.27054	34.88929	0.53495
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	77	432.53247	78.00574	787.05919	30	33305	5	9600	10	110	9595	100	2439791.85748	1561.98331	178.00452	4.93789	0.27391	24.77746	0.54146
TOC (mg/l)	0																		
Hardness (mg/l)	79	270.35443	258.94508	281.76378	280	21358	124	364	236	312	240	76	2594.61636	50.93738	5.73090	-0.71270	0.27054	0.00792	0.53495
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	60	10.88317	10.31405	11.45228	11.09	652.99	6.8	16.68	9.38	12.43	9.88	3.05	4.85353	2.20307	0.28442	0.41838	0.30869	-0.12827	0.60849
pH	61	8.06902	7.97388	8.16415	8.13	492.21	7.12	8.77	7.93	8.32	1.65	0.39	0.13798	0.37145	0.04756	-0.84198	0.30627	0.14019	0.60384
Copper (ug/l)	8	2.63750	1.65039	3.62461	2	21.1	2	4.6	2	3.25	2.6	1.25	1.39411	1.18072	0.41745	1.44238	0.75210	0.01434	1.48088
Iron (ug/l)	8	250.12500	155.29708	344.95292	240	2001	81	450	185	310	369	125	12865.83929	113.42768	40.10274	0.49943	0.75210	0.50104	1.48088
Zinc (ug/l)	8	2.80625	1.49093	4.12157	2.25	22.45	2.25	6.7	2.25	4.45	0	2.47531	1.57331	0.55625	2.82843	0.75210	8.00000	1.48088	

Station: TR-107

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	70	216.27143	210.41858	222.12428	223.5	15139	131	248	204	233	117	29	602.51946	24.54627	2.93384	-1.69899	0.28675	3.59515	0.56627
Ammonia (mg/l as N)	71	0.10352	0.08158	0.12546	0.05	7.35	0.05	0.5	0.05	0.1	0.45	0.05	0.00859	0.09271	0.01100	2.12196	0.28480	4.94071	0.56251
BOD (mg/l)	34	1.57353	1.23916	1.90790	1.3	53.5	0.5	4.4	1	2	3.9	1	0.91837	0.95832	0.16435	1.05619	0.40305	1.05361	0.78790
COD (mg/l)	71	22.99296	20.92665	25.05926	21.8	1632.5	2.5	60	19	25	57.5	6	76.20895	8.72977	1.03603	1.48723	0.28480	4.53923	0.56251
Cyanide (mg/l)	68	0.00534	0.00500	0.00568	0.005	0.363	0.005	0.013	0.005	0.005	0.008	0	0.00000	0.00140	0.00017	4.55132	0.29076	20.89071	0.57400
Nitrate (mg/l as N)	71	2.30915	1.98244	2.63587	2	163.95	0.05	7.1	1.4	3.1	7.05	1.7	1.90524	1.38030	0.16381	1.67831	0.28480	3.79119	0.56251
Total Phosphorus (mg/l as P)	71	0.13099	0.11055	0.15142	0.11	9.3	0.015	0.43	0.08	0.15	0.415	0.07	0.00745	0.08634	0.01025	1.57001	0.28480	2.32298	0.56251
Total Solids (mg/l)	70	402.37143	394.59421	410.14865	407.5	28166	298	462	383	424	164	41	1063.86004	32.61687	3.89846	-0.65259	0.28675	0.61924	0.56627
Suspended Solids (mg/l)	69	16.94203	10.92002	22.96404	12	1169	2	171	6	16	169	10	628.40835	25.06807	3.01784	4.36280	0.28874	22.68982	0.57010
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	1	0.05000				0.05	0.05	0.05											
E. coli (CFU/100ml)	69	933.04348	322.21369	1543.87326	180	64380	5	18400	60	680	18395	620	6465461.92455	2542.72726	306.10839	5.47342	0.28874	34.26042	0.57010
TOC (mg/l)	0																		
Hardness (mg/l)	70	283.32857	274.01923	292.63791	296	19833	152	337	274	308	185	34	1524.31077	39.04242	4.66646	-1.54427	0.28675	2.11592	0.56627
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	57	9.93175	9.42834	10.43517	10.06	566.11	6.4	14	8.3	11.26	7.6	2.96	3.59959	1.89726	0.25130	0.03959	0.31633	-0.73766	0.62313
pH	57	7.91965	7.84125	7.99805	7.95	451.42	6.89	8.36	7.79	8.13	1.47	0.34	0.08731	0.29548	0.03914	-0.97759	0.31633	1.47005	0.62313
Copper (ug/l)	14	3.32143	2.20272	4.44014	2	46.5	2	7	2	5.5	5	3.5	3.75412	1.93756	0.51783	0.96358	0.59738	-0.92118	1.15405
Iron (ug/l)	6	758.33333	-3.80312	1520.46979	505	4550	230	2100	230	980	1870	750	527416.66667	726.23458	296.48403	1.58335	0.84515	2.43393	1.74078
Zinc (ug/l)	14	8.96429	6.37597	11.55261	10	125.5	2.25	20	6.1	10	17.75	3.9	20.09593	4.48285	1.19809	0.67260	0.59738	2.04195	1.15405

Station: V-8

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	78	203.21795	196.41704	210.01886	206	15851	115	253	185	226	138	41	909.86097	30.16390	3.41539	-0.68914	0.27221	0.04265	0.53818
Ammonia (mg/l as N)	78	0.07756	0.06176	0.09337	0.05	6.05	0.05	0.4	0.05	0.05	0.35	0	0.00491	0.07009	0.00794	2.88289	0.27221	8.11746	0.53818
BOD (mg/l)	37	1.90541	1.48897	2.32184	1.6	70.5	0.5	5.9	1.2	2.3	5.4	1.1	1.55997	1.24899	0.20533	1.56881	0.38759	2.77502	0.75872
COD (mg/l)	78	16.52564	14.38616	18.66512	13.7	1289	2.5	54.4	11	20	51.9	9	90.04453	9.48918	1.07444	1.80635	0.27221	4.22166	0.53818
Cyanide (mg/l)	78	0.00527	0.00508	0.00546	0.005	0.411	0.005	0.01	0.005	0.005	0.005	0	0.00000	0.00085	0.00010	3.91023	0.27221	16.77105	0.53818
Nitrate (mg/l as N)	78	6.51923	5.75289	7.28557	6.1	508.5	0.2	14	3.6	8.9	13.8	5.3	11.55274	3.39893	0.38485	0.37353	0.27221	-0.79546	0.53818
Total Phosphorus (mg/l as P)	78	0.31744	0.26581	0.36906	0.235	24.76	0.04	1.26	0.17	0.44	1.22	0.27	0.05243	0.22899	0.02593	1.62493	0.27221	3.18357	0.53818
Total Solids (mg/l)	78	495.20513	473.96186	516.44840	483	38626	340	987	446	515	647	69	8877.35997	94.21974	10.66829	2.42465	0.27221	9.62799	0.53818
Suspended Solids (mg/l)	78	59.83333	41.48680	78.17986	31	4667	2	520	16	76	518	60	6621.38745	81.37191	9.21355	3.30313	0.27221	14.15499	0.53818
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	75	483.60000	227.89723	739.30277	160	36270	5	8000	30	480	7995	450	1235140.91892	1111.36894	128.32983	5.05482	0.27740	29.78768	0.54821
TOC (mg/l)	0																		
Hardness (mg/l)	78	291.80769	281.03372	302.58166	299	22761	118	372	260	330	254	70	2283.45604	47.78552	5.41064	-1.01939	0.27221	1.46494	0.53818
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	63	10.39794	9.88465	10.91122	10.2	655.07	6.95	19.2	8.8	11.6	12.25	2.8	4.15381	2.03809	0.25678	1.29717	0.30159	4.36352	0.59484
pH	64	8.03406	7.94015	8.12797	8.115	514.18	7.06	8.72	7.81	8.3	1.66	0.49	0.14133	0.37594	0.04699	-0.65459	0.29933	-0.14722	0.59049
Copper (ug/l)	12	3.50000	2.36665	4.63335	3	42	2	7	2	4.5	5	2.5	3.18182	1.78377	0.51493	0.80728	0.63730	-0.53518	1.23225
Iron (ug/l)	2	310.00000	-2231.24095	2851.24095	310	620	110	510			400		80000.00000	282.84271	200.00000				
Zinc (ug/l)	12	16.25000	10.32599	22.17401	10	195	5	30	10	25	25	15	86.93182	9.32372	2.69153	0.63730	-1.26423	1.23225	

Station: WB-130

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	74	189.09459	180.72888	197.46031	194	13993	106	292	165	212	186	47	1303.84024	36.10873	4.19755	-0.09426	0.27920	0.13033	0.55168
Ammonia (mg/l as N)	75	0.16333	0.00266	0.32400	0.05	12.25	0.05	6.1	0.05	0.1	6.05	0.05	0.48766	0.69832	0.08064	8.52767	0.27740	73.42226	0.54821
BOD (mg/l)	35	3.26000	2.50633	4.01367	2.7	114.1	0.5	9.5	1.6	4.5	9	2.9	4.81365	2.19400	0.37085	1.07072	0.39769	0.91228	0.77779
COD (mg/l)	75	24.48133	22.09667	26.86600	22.8	1836.1	2.5	60	18.8	28	57.5	9.2	107.42370	10.36454	1.19679	1.23475	0.27740	2.90158	0.54821
Cyanide (mg/l)	2	0.00700	-0.01841	0.03241	0.007	0.014	0.005	0.009			0.004		0.00001	0.00283	0.00200				
Nitrate (mg/l as N)	75	5.42933	0.97521	9.88345	3.3	407.2	0.05	170	1.8	4.4	169.95	2.6	374.77420	19.35909	2.23539	8.52522	0.27740	73.41035	0.54821
Total Phosphorus (mg/l as P)	74	0.24899	0.16060	0.33737	0.18	18.425	0.015	3.34	0.13	0.27	3.325	0.14	0.14554	0.38150	0.04435	7.49591	0.27920	61.00140	0.55168
Total Solids (mg/l)	74	483.62162	454.14255	513.10069	455	35788	291	970	429	495	679	66	16189.96446	127.23979	14.79133	2.32996	0.27920	6.22170	0.55168
Suspended Solids (mg/l)	74	102.52703	76.26960	128.78445	64.5	7587	2	592	46	108	590	62	12844.66364	113.33430	13.17484	2.75980	0.27920	8.02414	0.55168
Dissolved Solids (mg/l)	69	355.92754	344.47175	367.38332	366	24559	246	447	324	392	201	68	2274.09761	47.68750	5.74090	-0.50431	0.28874	-0.35863	0.57010
Sulfate (mg/l)	2	144.50000	-1005.41153	1294.41153	144.5	289	54	235			181		16380.50000	127.98633	90.50000				
TKN (mg/l as N)	3	3.45000	-6.55849	13.45849	2.4	10.35	0.05	7.9			7.85		16.23250	4.02896	2.32612	1.09311	1.22474		
E. coli (CFU/100ml)	70	413.92857	203.84087	624.01627	70	28975	5	4400	20	340	4395	320	77631.69048	881.08665	105.31000	3.20577	0.28675	9.94910	0.56627
TOC (mg/l)	5	7.26000	1.49488	13.02512	5.2	36.3	4.2	15.4	4.8	6.7	11.2	1.9	21.55800	4.64306	2.07644	2.02681	0.91287	4.19141	2.00000
Hardness (mg/l)	74	260.44595	249.72675	271.16514	267	19273	146	360	223	294	214	71	2140.63402	46.26699	5.37843	-0.26652	0.27920	-0.13802	0.55168
Chloride (mg/l)	3	61.06667	-143.94339	266.07672	28	183.2	0.2	155			154.8		6810.81333	82.52765	47.64736	1.51357	1.22474		
Dissolved Oxygen (mg/l)	59	10.63729	10.14951	11.12507	10.65	627.6	6.24	14.1	9.1	11.89	7.86	2.79	3.50341	1.87174	0.24368	-0.40172	0.31118	-0.55798	0.61326
pH	60	8.09983	7.99741	8.20226	8.125	485.99	6.74	8.82	7.91	8.33	2.08	0.42	0.15720	0.39649	0.05119	-0.90540	0.30869	1.76489	0.60849
Copper (ug/l)	5	8.46000	0.67030	16.24970	5.5	42.3	2	17	4.8	13	15	8.2	39.35800	6.27360	2.80564	0.62751	0.91287	-1.75296	2.00000
Iron (ug/l)	74	3054.86648	2194.41138	3915.31834	1800	226060	300	25000	1000	3400	24700	2400	13793458.20067	371.95452	431.73844	3.69263	0.27920	17.71087	0.55168
Zinc (ug/l)	5	35.80000	12.05531	59.54469	31	179	15	66	27	40	51	13	365.70000	19.12328	8.55219	1.06212	0.91287	1.58820	2.00000

Station: WB-183

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	75	197.85333	191.07629	204.63038	200	14839	108	263	180	218	155	38	867.61333	29.45528	3.40120	-0.55068	0.27740	0.87863	0.54821
Ammonia (mg/l as N)	75	0.11000	0.08972	0.13028	0.05	8.25	0.05	0.4	0.05	0.2	0.35	0.15	0.00777	0.08815	0.01018	1.57193	0.27740	1.92518	0.54821
BOD (mg/l)	35	3.10286	2.51785	3.68787	2.7	108.6	0.5	8	2	3.8	7.5	1.8	2.90029	1.70302	0.28786	1.38835	0.39769	1.70846	0.77779
COD (mg/l)	75	23.35733	21.72187	24.99280	22.4	1751.8	5	54	18	26.5	49	8.5	50.52734	7.10826	0.82079	1.32648	0.27740	4.37020	0.54821
Cyanide (mg/l)	75	0.00513	0.00500	0.00527	0.005	0.385	0.005	0.009	0.005	0.005	0.004	0	0.00000	0.00060	0.00007	5.33694	0.27740	29.91583	0.54821
Nitrate (mg/l as N)	75	3.63067	3.16074	4.10059	3.8	272.3	0.1	10	1.8	5	9.9	3.2	4.17161	2.04245	0.23584	0.40143	0.27740	0.12931	0.54821
Total Phosphorus (mg/l as P)	75	0.20973	0.19233	0.22714	0.2	15.73	0.06	0.56	0.16	0.25	0.5	0.09	0.00572	0.07566	0.00874	1.68150	0.27740	5.78331	0.54821
Total Solids (mg/l)	75	474.45333	452.71714	496.18953	460	35584	290	939	428	498	649	70	8925.08901	94.47269	10.90877	2.99915	0.27740	13.48242	0.54821
Suspended Solids (mg/l)	75	87.42667	68.94288	105.91045	67	6557	8	644	50	98	636	48	6453.97766	80.33665	9.27648	4.76477	0.27740	31.09017	0.54821
Dissolved Solids (mg/l)	71	372.87324	354.95593	390.79055	370	26474	254	876	343	390	622	47	5730.11227	75.69751	8.98364	4.19226	0.28480	27.80629	0.56251
Sulfate (mg/l)	0																		
TKN (mg/l as N)	75	1.21053	1.12654	1.29453	1.2	90.79	0.6	2.5	1	1.4	1.9	0.4	0.13327	0.36506	0.04215	0.94535	0.27740	1.32901	0.54821
E. coli (CFU/100ml)	71	910.56338	280.89049	1540.23627	130	64650	5	16000	40	220	15995	180	7076974.67807	2660.25839	315.71459	4.09793	0.28480	17.85684	0.56251
TOC (mg/l)	0																		
Hardness (mg/l)	75	275.18667	265.25785	285.11549	278	20639	142	415	246	302	273	56	1862.26198	43.15393	4.98299	-0.12368	0.27740	1.34861	0.54821
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	61	9.83951	9.34669	10.33232	9.36	600.21	6.59	15.9	8.62	10.99	9.31	2.37	3.70261	1.92422	0.24637	0.73160	0.30627	0.65372	0.60384
pH	62	8.04032	7.94753	8.13312	8.115	498.5	6.96	8.63	7.83	8.29	1.67	0.46	0.13352	0.36541	0.04641	-0.79201	0.30390	0.53684	0.59929
Copper (ug/l)	75	5.60133	4.85367	6.34900	5	420.1	2	20	4	6.8	18	2.8	10.55986	3.24959	0.37523	1.91923	0.27740	5.59872	0.54821
Iron (ug/l)	75	2453.86667	1823.85777	3083.87556	1900	184040	270	23000	1200	3100	22730	1900	7497888.90090	2738.22733	316.18326	5.91250	0.27740	43.53856	0.54821

Station: WB-230

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	71	198.87324	192.67160	205.07488	201	14120	112	265	182	214	153	32	686.48370	26.20083	3.10947	-0.54564	0.28480	1.05384	0.56251
Ammonia (mg/l as N)	71	0.10775	0.08453	0.13096	0.05	7.65	0.05	0.5	0.05	0.1	0.45	0.05	0.00962	0.09807	0.01164	1.96286	0.28480	3.63519	0.56251
BOD (mg/l)	35	3.16571	2.56905	3.76238	2.7	110.8	0.5	8	1.9	4.2	7.5	2.3	3.01703	1.73696	0.29360	0.90920	0.39769	0.57084	0.77779
COD (mg/l)	71	22.41972	20.93459	23.90485	22	1591.8	8	44	18	26.8	36	8.8	39.36846	6.27443	0.74464	0.72539	0.28480	1.52617	0.56251
Cyanide (mg/l)	71	0.00534	0.00504	0.00564	0.005	0.379	0.005	0.013	0.005	0.005	0.008	0	0.00000	0.00126	0.00015	4.52308	0.28480	22.19582	0.56251
Nitrate (mg/l as N)	71	3.87042	3.29657	4.44427	3.8	274.8	0.05	9.8	1.8	5.5	9.75	3.7	5.87776	2.42441	0.28772	0.33594	0.28480	-0.63513	0.56251
Total Phosphorus (mg/l as P)	71	0.19775	0.17945	0.21604	0.2	14.04	0.03	0.46	0.14	0.24	0.43	0.1	0.00597	0.07728	0.00917	0.60821	0.28480	1.51400	0.56251
Total Solids (mg/l)	71	465.23944	448.92547	481.55340	452	33032	372	842	426	488	470	62	4750.47042	68.92366	8.17973	3.05828	0.28480	13.86726	0.56251
Suspended Solids (mg/l)	71	74.53521	59.64651	89.42391	58	5292	2	432	40	98	430	58	3956.68089	62.90215	7.46511	2.96355	0.28480	14.14980	0.56251
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	67	630.74627	21.08296	1240.40958	80	42260	5	19000	20	350	18995	330	6247241.10131	2499.44816	305.35619	6.54311	0.29284	46.22559	0.57800
TOC (mg/l)	0																		
Hardness (mg/l)	71	276.15493	267.30303	285.00683	280	19607	172	374	252	298	202	46	1398.58994	37.39773	4.43829	-0.11075	0.28480	0.58889	0.56251
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	59	10.50508	10.03188	10.97829	10.2	619.8	7.18	17.2	9.26	11.77	10.02	2.51	3.29722	1.81582	0.23640	1.06210	0.31118	1.89055	0.61326
pH	60	8.14233	8.05899	8.22568	8.19	488.54	7.09	8.69	7.995	8.365	1.6	0.37	0.10410	0.32264	0.04165	-0.89004	0.30869	1.30937	0.60849
Copper (ug/l)	16	4.57500	3.39715	5.75285	4.9	73.2	2	9.6	2	6	7.6	4	4.88600	2.21043	0.55261	0.47836	0.56431	0.10208	1.09077
Iron (ug/l)	8	1921.25000	835.46661	3007.03339	1600	15370	370	4200	1000	2800	3830	1800	1686755.35714	1298.75146	459.17798	0.76086	0.75210	-0.27388	1.48088
Zinc (ug/l)	16	13.23125	10.48647	15.97603	10	211.7	6.9	22	10	18	15.1	8	26.53296	5.15102	1.28775	0.73286	0.56431	-1.13926	1.09077

Station: WB-240

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	79	200.84810	194.44610	207.25010	202	15867	108	286	184	218	178	34	816.92535	28.58191	3.21572	-0.21429	0.27054	1.20653	0.53495
Ammonia (mg/l as N)	78	0.09038	0.07194	0.10883	0.05	7.05	0.05	0.5	0.05	0.1	0.45	0.05	0.00669	0.08180	0.00926	2.71006	0.27221	8.48705	0.53818
BOD (mg/l)	38	3.23158	2.63038	3.83278	2.85	122.8	0.5	8	1.7	4.5	7.5	2.8	3.34546	1.82906	0.29671	0.81292	0.38282	-0.07950	0.74970
COD (mg/l)	78	23.29487	21.13718	25.45256	21	1817	8.4	65	17	26.3	56.6	9.3	91.58387	9.56995	1.08358	2.05979	0.27221	5.62765	0.53818
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	78	3.92372	3.41640	4.43103	4	306.05	0.05	9.7	1.9	5.5	9.65	3.6	5.06290	2.25009	0.25477	0.14402	0.27221	-0.65583	0.53818
Total Phosphorus (mg/l as P)	78	0.22090	0.18385	0.25794	0.19	17.23	0.04	1.36	0.15	0.24	1.32	0.09	0.02699	0.16429	0.01860	5.02476	0.27221	31.56948	0.53818
Total Solids (mg/l)	79	468.59494	442.19249	494.99739	448	37019	315	1370	425	477	1055	52	13894.39792	117.87450	13.26192	6.03654	0.27054	44.73368	0.53495
Suspended Solids (mg/l)	79	74.29114	53.78391	94.79837	57	5869	4	724	37	82	720	45	8382.33723	91.55510	10.30075	5.39600	0.27054	34.89650	0.53495
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	76	578.09211	121.04949	1035.13472	105	43935	5	15000	15	400	14995	385	4000403.31140	2000.10083	229.42730	6.16139	0.27564	40.48291	0.54480
TOC (mg/l)	0																		
Hardness (mg/l)	79	277.98734	268.94078	287.03391	278	21961	168	370	250	308	202	58	1631.24343	40.38865	4.54408	-0.24121	0.27054	0.12293	0.53495
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	63	10.73889	10.30066	11.17712	10.41	676.55	7.25	16.5	9.58	12.02	9.25	2.44	3.02782	1.74006	0.21923	0.71662	0.30159	0.84746	0.59484
pH	64	8.12594	8.03909	8.21278	8.145	520.06	7.11	8.67	7.925	8.38	1.56	0.455	0.12087	0.34766	0.04346	-0.64054	0.29933	0.28351	0.59049
Copper (ug/l)	0																		
Iron (ug/l)	0																		
Zinc (ug/l)	0																		

Station: WB-256

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	76	196.28947	189.14886	203.43009	194.5	14918	120	262	173	219	142	46	976.47509	31.24860	3.58446	-0.05856	0.27564	-0.66442	0.54480
Ammonia (mg/l as N)	76	0.09605	0.07455	0.11755	0.05	7.3	0.05	0.6	0.05	0.1	0.55	0.05	0.00885	0.09408	0.01079	3.05250	0.27564	11.51253	0.54480
BOD (mg/l)	36	3.51389	2.93621	4.09156	3.25	126.5	1.1	6.8	2	4.75	5.7	2.75	2.91494	1.70732	0.28455	0.46627	0.39254	-0.90920	0.76808
COD (mg/l)	76	23.26184	21.41706	25.10662	22.55	1767.9	7	58	17	28.2	51	11.2	65.17492	8.07310	0.92605	1.12313	0.27564	3.25507	0.54480
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	76	3.90132	3.34110	4.46154	3.9	296.5	0.05	9.7	1.8	5.55	9.65	3.75	6.01046	2.45162	0.28122	0.35219	0.27564	-0.58862	0.54480
Total Phosphorus (mg/l as P)	76	0.21859	0.19695	0.24023	0.2	16.613	0.05	0.6	0.16	0.255	0.55	0.095	0.00897	0.09470	0.01086	1.70105	0.27564	5.11584	0.54480
Total Solids (mg/l)	76	459.02632	436.97169	481.08094	447.5	34886	135	1034	423	482	899	59	9315.14596	96.51500	11.07103	2.69872	0.27564	18.39802	0.54480
Suspended Solids (mg/l)	76	77.15789	55.29391	99.02188	56	5864	2	616	32	82.5	614	50.5	9154.80140	95.68073	10.97533	4.10151	0.27564	19.72885	0.54480
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	73	393.15068	190.53650	595.76487	120	28700	5	5600	20	420	5595	400	754129.51865	868.40631	101.63927	4.63718	0.28103	23.68356	0.55522
TOC (mg/l)	0																		
Hardness (mg/l)	76	277.06579	267.36446	286.76712	281.5	21057	148	370	254.5	300	222	45.5	1802.40895	42.45479	4.86990	-0.33183	0.27564	0.68459	0.54480
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	61	10.72262	10.13901	11.30624	10.21	654.08	7.71	19.73	9.3	11.41	12.02	2.11	5.19266	2.27874	0.29176	1.70750	0.30627	4.28761	0.60384
pH	63	8.08524	7.94881	8.22167	8.18	509.37	5.02	8.71	7.9	8.4	3.69	0.5	0.29346	0.54172	0.06825	-3.10887	0.30159	15.73532	0.59484
Copper (ug/l)	0																		
Iron (ug/l)	0																		
Zinc (ug/l)	0																		

Station: WB-303

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	77	196.59740	190.00386	203.19094	202	15138	102	265	178	214	163	36	843.90157	29.04998	3.31055	-0.31276	0.27391	0.87715	0.54146
Ammonia (mg/l as N)	76	0.09737	0.07737	0.11737	0.05	7.4	0.05	0.5	0.05	0.1	0.45	0.05	0.00766	0.08752	0.01004	2.39583	0.27564	6.63101	0.54480
BOD (mg/l)	37	2.98108	2.38388	3.57828	2.3	110.3	0.5	7.5	1.7	4.6	7	2.9	3.20824	1.79116	0.29446	0.79109	0.38759	-0.11096	0.75872
COD (mg/l)	76	21.06842	19.57335	22.56349	20.9	1601.2	7	39	17	25	32	8	42.80699	6.54271	0.75050	0.33136	0.27564	0.30943	0.54480
Cyanide (mg/l)	76	0.00507	0.00500	0.00513	0.005	0.385	0.005	0.007	0.005	0.005	0.002	0	0.00000	0.00030	0.00003	4.98741	0.27564	26.60314	0.54480
Nitrate (mg/l as N)	76	3.52434	3.06300	3.98569	3.3	267.85	0.05	8.8	1.75	4.65	8.75	2.9	4.07610	2.01894	0.23159	0.36409	0.27564	-0.40798	0.54480
Total Phosphorus (mg/l as P)	76	0.18447	0.16423	0.20472	0.165	14.02	0.03	0.47	0.13	0.22	0.44	0.09	0.00785	0.08861	0.01016	1.03146	0.27564	1.13702	0.54480
Total Solids (mg/l)	77	490.57143	381.02604	600.11682	434	37774	341	4654	412	465	4313	53	232939.43233	482.63799	55.00170	8.66774	0.27391	75.72797	0.54146
Suspended Solids (mg/l)	77	47.51948	38.73038	56.30858	39	3659	2	203	22	58	201	36	1499.48975	38.72325	4.41292	1.69124	0.27391	3.30020	0.54146
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	75	1.17000	1.07991	1.26009	1.1	87.75	0.6	2.9	0.9	1.4	2.3	0.5	0.15331	0.39155	0.04521	1.56319	0.27740	4.50625	0.54821
E. coli (CFU/100ml)	75	989.93333	182.02546	1797.84121	200	74245	5	26000	70	480	25995	410	12330177.36036	3511.43523	405.46561	5.88272	0.27740	37.56541	0.54821
TOC (mg/l)	0																		
Hardness (mg/l)	77	273.98701	264.94310	283.03093	276	21097	128	366	250	299	238	49	1587.69720	39.84592	4.54086	-0.44506	0.27391	1.56284	0.54146
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	62	10.30935	9.79178	10.82693	9.9	639.18	6.97	17.7	9	11.38	10.73	2.38	4.15372	2.03807	0.25883	1.05663	0.30390	1.80811	0.59929
pH	63	8.08635	8.00191	8.17079	8.11	509.44	7.1	8.73	7.96	8.31	1.63	0.35	0.11241	0.33527	0.04224	-0.82914	0.30159	0.59282	0.59484
Copper (ug/l)	16	4.57500	3.39715	5.75285	4.9	73.2	2	9.6	2	6	7.6	4	4.88600	2.21043	0.55261	0.47836	0.56431	0.10208	1.09077
Iron (ug/l)	8	1921.25000	835.46661	3007.03339	1600	15370	370	4200	1000	2800	3830	1800	1686755.35714	1298.75146	459.17798	0.76086	0.75210	-0.27388	1.48088
Zinc (ug/l)	16	13.23125	10.48647	15.97603	10	211.7	6.9	22	10	18	15.1	8	26.53296	5.15102	1.28775	0.73286	0.56431	-1.13926	1.09077

Station: WB-316

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Std.Dev.	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	77	194.85714	187.98844	201.72585	194	15004	123	265	174	218	44	915.80827	30.26232	3.44871	0.04128	0.27391	-0.44509	0.54146	
Ammonia (mg/l as N)	77	0.10130	0.08298	0.11961	0.05	7.8	0.05	0.4	0.05	0.1	0.35	0.05	0.00651	0.08069	0.00920	1.65370	0.27391	2.16666	0.54146
BOD (mg/l)	35	2.94571	2.34502	3.54640	2.4	103.1	0.5	7.9	1.8	3.7	7.4	1.9	3.05785	1.74867	0.29558	1.27070	0.39769	1.25689	0.77779
COD (mg/l)	77	22.25195	20.50881	23.99508	22	1713.4	8	50	17	25.3	42	8.3	58.98174	7.67996	0.87521	1.00118	0.27391	1.76011	0.54146
Cyanide (mg/l)	77	0.00529	0.00502	0.00555	0.005	0.407	0.005	0.012	0.005	0.005	0.007	0	0.00000	0.00116	0.00013	4.65058	0.27391	22.44755	0.54146
Nitrate (mg/l as N)	77	3.94416	3.47550	4.41282	3.8	303.7	0.2	9.4	2.2	5.4	9.2	3.2	4.26355	2.06484	0.23531	0.51174	0.27391	-0.28618	0.54146
Total Phosphorus (mg/l as P)	77	0.16792	0.14820	0.18765	0.16	12.93	0.04	0.45	0.1	0.21	0.41	0.11	0.00755	0.08690	0.00990	0.97226	0.27391	1.03987	0.54146
Total Solids (mg/l)	77	432.36364	416.73488	447.99239	432	33292	84	681	404	460	597	56	4741.36603	68.85758	7.84705	-0.94413	0.27391	9.55788	0.54146
Suspended Solids (mg/l)	77	52.54545	42.36264	62.72826	40	4046	2	244	25	61	242	36	2012.75120	44.86370	5.11269	1.96163	0.27391	4.73015	0.54146
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	77	1.14390	1.05152	1.23627	1.1	88.08	0.5	2.5	0.9	1.3	2	0.4	0.16563	0.40698	0.04638	1.19112	0.27391	2.08435	0.54146
E. coli (CFU/100ml)	76	1147.89474	373.84650	1921.94298	170	87240	5	23000	60	645	22995	585	11474306.17544	3387.37453	388.55851	4.97447	0.27564	27.40255	0.54480
TOC (mg/l)	0																		
Hardness (mg/l)	77	273.62338	264.09111	283.15564	274	21069	170	370	244	302	200	58	1763.79050	41.99751	4.78606	0.07859	0.27391	-0.40039	0.54146
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	63	10.25111	9.81580	10.68643	9.9	645.82	6.91	14.26	9.1	11.53	7.35	2.43	2.98767	1.72849	0.21777	0.42358	0.30159	-0.38593	0.59484
pH	64	8.06484	7.98569	8.14400	8.105	516.15	7.13	8.69	7.92	8.235	1.56	0.315	0.10042	0.31689	0.03961	-0.75724	0.29933	1.08294	0.59049
Copper (ug/l)	77	4.38312	3.78950	4.97673	4	337.5	2	14	2	6	12	4	6.84011	2.61536	0.29805	1.25145	0.27391	1.95136	0.54146
Iron (ug/l)	77	1892.07792	1441.40703	2342.74881	1000	145690	110	9200	550	2700	9090	2150	3942519.30964	1985.57783	226.27759	1.72066	0.27391	2.74275	0.54146
Zinc (ug/l)	77	12.30390	10.46260	14.14519	10	947.4	2.25	40	6.2	19	37.75	12.8	65.81137	8.11242	0.92450	1.57103	0.27391	2.68509	0.54146

Station: WB-347

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Std.Dev.	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	80	196.80000	186.97164	206.62836	194	15744	102	367	163.5	220.5	265	57	1950.51646	44.16465	4.93776	0.72616	0.26891	1.65046	0.53179
Ammonia (mg/l as N)	80	0.09313	0.07553	0.11072	0.05	7.45	0.05	0.4	0.05	0.1	0.35	0.05	0.00625	0.07905	0.00884	2.08472	0.26891	4.43031	0.53179
BOD (mg/l)	37	2.59730	2.14939	3.04521	2.2	96.1	0.5	6.2	1.6	3.1	5.7	1.5	1.80471	1.34340	0.22085	1.35488	0.38759	1.76731	0.75872
COD (mg/l)	80	23.15250	21.30070	25.00430	21	1852.2	8	50	17.75	28	42	10.25	69.24278	8.32122	0.93034	0.87136	0.26891	0.76223	0.53179
Cyanide (mg/l)	12	0.00500			0.005	0.06	0.005	0.005	0.005	0.005	0	0	0.00000	0.00000					
Nitrate (mg/l as N)	80	3.36313	2.94867	3.77758	3.2	269.05	0.05	8.4	2.05	4.5	8.35	2.45	3.46853	1.86240	0.20822	0.54635	0.26891	0.01518	0.53179
Total Phosphorus (mg/l as P)	80	0.18394	0.16021	0.20766	0.17	14.715	0.015	0.61	0.1	0.235	0.595	0.135	0.01137	0.10662	0.01192	1.09076	0.26891	2.21642	0.53179
Total Solids (mg/l)	80	428.83750	415.94688	441.72812	417.5	34307	316	719	394.5	450.5	403	56	3355.32769	57.92519	6.47623	1.87807	0.26891	7.45947	0.53179
Suspended Solids (mg/l)	80	47.53750	36.00563	59.06937	36	3803	2	324	15	57.5	322	42.5	2685.26440	51.81954	5.79360	2.96611	0.26891	11.61127	0.53179
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	79	875.69620	343.64794	1407.74447	160	69180	5	16000	60	420	15995	360	5642263.29114	2375.34488	267.24718	4.68120	0.27054	24.78340	0.53495
TOC (mg/l)	0																		
Hardness (mg/l)	80	273.46250	261.15154	285.77346	272	21877	148	534	239	304	386	65	3060.35301	55.32046	6.18502	1.20149	0.26891	5.20367	0.53179
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	61	11.09705	10.49547	11.69863	10.7	676.92	6.89	17	9.45	12.87	10.11	3.42	5.51733	2.34890	0.30075	0.63705	0.30627	-0.01273	0.60384
pH	63	8.12206	8.02809	8.21603	8.14	511.69	7.05	8.8	7.95	8.32	1.75	0.37	0.13922	0.37312	0.04701	-0.76579	0.30159	0.69595	0.59484
Copper (ug/l)	18	4.68333	3.39780	5.96886	4.3	84.3	2	11	2	6	9	4	6.68265	2.58508	0.60931	0.86670	0.53628	0.57662	1.03780
Iron (ug/l)	8	1446.25000	192.42615	2700.07385	1050	11570	210	4800	380	1850	4590	1470	2249255.35714	1499.75177	530.24232	1.88864	0.75210	4.01961	1.48088
Zinc (ug/l)	18	9.23889	6.50474	11.97304	10	166.3	2.25	24	5.3	10	21.75	4.7	30.22928	5.49812	1.29592	1.40728	0.53628	2.51264	1.03780

Station: WB-370

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	78	184.47436	174.66419	194.28452	181	14389	90	280	158	214	190	56	1893.18765	43.51078	4.92663	0.20200	0.27221	-0.32182	0.53818
Ammonia (mg/l as N)	78	0.10321	0.08361	0.12280	0.05	8.05	0.05	0.4	0.05	0.1	0.35	0.05	0.00755	0.08692	0.00984	1.86305	0.27221	2.82507	0.53818
BOD (mg/l)	35	2.40857	1.98956	2.82758	2.3	84.3	0.5	6.2	1.7	2.9	5.7	1.2	1.48787	1.21978	0.20618	1.69553	0.39769	3.66608	0.77779
COD (mg/l)	0																		
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	78	3.63974	3.21331	4.06618	3.4	283.9	0.1	8.2	2.3	4.9	8.1	2.6	3.57723	1.89136	0.21415	0.57227	0.27221	-0.17526	0.53818
Total Phosphorus (mg/l as P)	78	0.19077	0.16680	0.21473	0.18	14.88	0.05	0.67	0.13	0.24	0.62	0.11	0.01130	0.10629	0.01204	1.87491	0.27221	6.09518	0.53818
Total Solids (mg/l)	78	425.51282	409.20553	441.82011	422.5	33190	221	692	381	465	471	84	5231.24009	72.32731	8.18946	0.83719	0.27221	3.22003	0.53818
Suspended Solids (mg/l)	78	47.39744	36.03509	58.75979	33	3697	4	252	19	54	248	35	2539.67116	50.39515	5.70613	2.63005	0.27221	7.25516	0.53818
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	1	0.05000				0.05	0.05	0.05											
E. coli (CFU/100ml)	74	1022.63514	348.97448	1696.29579	180	75675	5	22000	80	600	21995	520	8454749.46779	2907.70519	338.01386	5.69176	0.27920	38.13446	0.55168
TOC (mg/l)	0																		
Hardness (mg/l)	78	261.17949	248.59378	273.76520	257	20372	116	374	226	298	258	72	3115.99334	55.82108	6.32049	-0.02639	0.27221	-0.28407	0.53818
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	60	10.58050	10.04457	11.11643	10.11	634.83	7.18	16.32	8.93	11.71	9.14	2.78	4.30397	2.07460	0.26783	0.78334	0.30869	0.00030	0.60849
pH	60	8.07117	7.99046	8.15188	8.12	484.27	6.93	8.66	7.92	8.255	1.73	0.335	0.09761	0.31243	0.04033	-1.32004	0.30869	3.08154	0.60849
Copper (ug/l)	74	4.83243	4.12443	5.54043	4.3	357.6	2	16	2	6	14	4	9.33866	3.05592	0.35524	1.68018	0.27920	3.39668	0.55168
Iron (ug/l)	13	1319.69231	517.99488	2121.38974	920	17156	96	4900	330	2000	4804	1670	1760047.89744	1326.66797	367.95149	1.82045	0.61634	3.79979	1.19087
Zinc (ug/l)	12	10.12917	6.16447	14.09387	10.2	121.55	2.25	25	5.35	13.5	22.75	8.15	38.93748	6.23999	1.80133	1.10673	0.63730	1.75824	1.23225

Station: WB-402

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	78	174.76923	164.71327	184.82519	180.5	13632	16	262	145	200	246	55	1989.24476	44.60095	5.05006	-0.50365	0.27221	0.82915	0.53818
Ammonia (mg/l as N)	77	0.13831	0.10880	0.16782	0.1	10.65	0.05	0.8	0.05	0.2	0.75	0.15	0.01690	0.13000	0.01482	2.61090	0.27391	9.45770	0.54146
BOD (mg/l)	38	3.11316	2.56203	3.66429	2.6	118.3	0.5	7.2	1.8	4.2	6.7	2.4	2.81144	1.67674	0.27200	0.80960	0.38282	-0.29543	0.74970
COD (mg/l)	77	24.85584	23.01113	26.70056	24	1913.9	6	47	19.8	29.5	41	9.7	66.05645	8.12751	0.92622	0.52573	0.27391	0.35793	0.54146
Cyanide (mg/l)	74	0.00615	0.00559	0.00670	0.005	0.455	0.005	0.016	0.005	0.006	0.011	0.001	0.00001	0.00240	0.00028	2.37199	0.27920	5.40351	0.55168
Nitrate (mg/l as N)	77	4.04545	3.40497	4.68594	3.3	311.5	0.8	14	2	5.4	13.2	3.4	7.96304	2.82189	0.32158	1.27976	0.27391	1.41958	0.54146
Total Phosphorus (mg/l as P)	77	0.27727	0.24772	0.30683	0.24	21.35	0.05	0.57	0.17	0.39	0.52	0.22	0.01695	0.13021	0.01484	0.37456	0.27391	-0.99379	0.54146
Total Solids (mg/l)	78	484.34615	464.37492	504.31739	476	37779	275	790	442	538	515	96	7846.04745	88.57792	10.02947	0.46954	0.27221	2.00439	0.53818
Suspended Solids (mg/l)	78	60.05128	43.67857	76.42399	36.5	4684	5	383	16	66	378	50	5273.29604	72.61746	8.22231	2.39046	0.27221	5.97843	0.53818
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	73	1782.46575	679.16589	2885.76562	260	130120	5	34000	100	870	33995	770	22361111.19673	4728.75366	553.45875	5.10159	0.28103	31.06524	0.55522
TOC (mg/l)	0																		
Hardness (mg/l)	78	275.26923	260.79535	289.74312	276.5	21471	136	414	218	327	278	109	4121.08242	64.19566	7.26873	-0.09142	0.27221	-0.68679	0.53818
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	59	10.38441	9.86499	10.90382	10.5	612.68	6	15.15	9.1	11.75	9.15	2.65	3.97261	1.99314	0.25948	0.14539	0.31118	0.10896	0.61326
pH	60	7.92933	7.84949	8.00918	7.905	475.76	7.2	8.57	7.745	8.15	1.37	0.405	0.09554	0.30909	0.03990	-0.26829	0.30869	-0.21569	0.60849
Copper (ug/l)	76	6.86053	4.28843	9.43263	5	521.4	2	100	4	7	98	3	126.69682	11.25597	1.29115	7.75860	0.27564	64.61598	0.54480
Iron (ug/l)	9	1413.33333	-105.57398	2932.24065	770	12720	140	6500	370	1400	6360	1030	3904675.00000	1976.02505	658.67502	2.62662	0.71714	7.29636	1.39971
Zinc (ug/l)	11	13.66818	6.16061	21.17575	8.3	150.35	2.25	39	7	23	36.75	16	124.88414	11.17516	3.36944	1.45769	0.66069	1.43178	1.27942

Station: WB-409

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	80	164.87500	156.72739	173.02261	163.5	13190	91	262	141.5	190	171	48.5	1340.43987	36.61202	4.09335	0.26877	0.26891	-0.03409	0.53179
Ammonia (mg/l as N)	79	0.16203	0.13332	0.19073	0.1	12.8	0.05	0.8	0.05	0.2	0.75	0.15	0.01642	0.12816	0.01442	0.209673	0.27054	7.27912	0.53495
BOD (mg/l)	38	2.83684	2.37906	3.29462	2.3	107.8	1.2	7.1	1.8	3.4	5.9	1.6	1.93969	1.39273	0.22593	1.49814	0.38282	2.00489	0.74970
COD (mg/l)	79	25.53165	23.84958	27.21371	25	2017	8	52	21	30	44	9	56.39424	7.50961	0.84490	0.73078	0.27054	1.88549	0.53495
Cyanide (mg/l)	2	0.00500			0.005	0.01	0.005	0.005			0		0.00000	0.00000	0.00000				
Nitrate (mg/l as N)	79	4.66582	3.91583	5.41581	3.7	368.6	0.4	17	2.1	6.8	16.6	4.7	11.21151	3.34836	0.37672	0.98850	0.27054	1.00063	0.53495
Total Phosphorus (mg/l as P)	79	0.22722	0.19992	0.25451	0.19	17.95	0.05	0.7	0.13	0.29	0.65	0.16	0.01485	0.12187	0.01371	1.26562	0.27054	1.77466	0.53495
Total Solids (mg/l)	80	448.40000	430.42542	466.37458	446.5	35872	264	667	402.5	487.5	403	85	6523.86329	80.77044	9.03041	0.22542	0.26891	0.43295	0.53179
Suspended Solids (mg/l)	80	48.07500	39.53987	56.61013	36	3846	8	214	23	61	206	38	1470.98165	38.35338	4.28804	2.37865	0.26891	7.36779	0.53179
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	76	535.13158	163.86461	906.39855	60	40670	5	12000	20	325	11995	305	2639751.31579	1624.73115	186.36944	5.50983	0.27564	34.79123	0.54480
TOC (mg/l)	0																		
Hardness (mg/l)	80	260.51250	245.79899	275.22601	255.5	20841	133	545	221	301.5	412	80.5	4371.39225	66.11651	7.39205	0.98493	0.26891	3.35889	0.53179
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	60	10.24033	9.67630	10.80436	10.25	614.42	5.2	14.92	8.69	11.88	9.72	3.19	4.76718	2.18339	0.28187	0.11020	0.30869	-0.39681	0.60849
pH	61	7.89508	7.80766	7.98250	7.92	481.6	6.99	8.64	7.72	8.12	1.65	0.4	0.11651	0.34133	0.04370	-0.28735	0.30627	0.27368	0.60384
Copper (ug/l)	77	5.20260	4.62278	5.78241	5	400.6	2	13	4	6	11	2	6.52578	2.55456	0.29112	0.92329	0.27391	0.83533	0.54146
Iron (ug/l)	10	1033.00000	625.85291	1440.14709	980	10330	320	2300	730	1300	1980	570	323934.44444	569.15239	179.98179	1.04638	0.68704	2.07814	1.33425
Zinc (ug/l)	11	6.95909	3.40911	10.50907	6	76.55	2.25	20	2.25	7.2	17.75	4.95	27.92291	5.28421	1.59325	1.75352	0.66069	3.29683	1.27942

Station: WB-420

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	74	196.4594595	185.486582	207.4323372	192.5	14538	100	310	167	227	210	60	2243.15587	47.36197	5.50572	0.29057	0.27920	-0.26732	0.55168
Ammonia (mg/l as N)	75	0.148666667	0.12198925	0.175344083	0.1	11.15	0.05	0.5	0.05	0.2	0.45	0.15	0.01344	0.11595	0.01339	1.09532	0.27740	0.68589	0.54821
BOD (mg/l)	35	4.294285714	3.26526819	5.323303234	3.4	150.3	0.5	14	2.2	5.7	13.5	3.5	8.97350	2.99558	0.50635	1.41185	0.39769	2.34813	0.77779
COD (mg/l)	75	30.12	27.6124658	32.62753419	29.7	2259	9.1	73	22	35.6	63.9	13.6	118.77892	10.89857	1.25846	1.01815	0.27740	2.67310	0.54821
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	75	3.534	2.82070423	4.247295774	3	265.05	0.05	12	1	4.8	11.95	3.8	9.61136	3.10022	0.35798	1.05880	0.27740	0.43627	0.54821
Total Phosphorus (mg/l as P)	75	0.28112	0.25230852	0.309931478	0.26	21.084	0.08	0.83	0.19	0.33	0.75	0.14	0.01568	0.12522	0.01446	1.71628	0.27740	4.84808	0.54821
Total Solids (mg/l)	74	555.527027	527.645914	583.40814	530.5	41109	370	825	469	623	455	154	14482.33488	120.34257	13.98954	0.70120	0.27920	-0.21662	0.55168
Suspended Solids (mg/l)	74	65.2027027	52.8138189	77.59158655	56	4825	5	396	32	92	391	60	2859.45150	53.47384	6.21621	3.42318	0.27920	19.34844	0.55168
Dissolved Solids (mg/l)	1	437			437	437	437												
Sulfate (mg/l)	1	75			75	75	75												
TKN (mg/l as N)	1	2.5			2.5	2.5	2.5												
E. coli (CFU/100ml)	73	427.3972603	235.759135	619.0353857	170	31200	5	6100	40	500	6095	460	674636.88166	821.36282	96.13325	5.02271	0.28103	31.94059	0.55522
TOC (mg/l)	0																		
Hardness (mg/l)	74	299.71622	285.38557	314.04686	303	22179	154	405	262	348	251	86	3826.04165	61.85501	7.19050	-0.40840	0.27920	-0.64303	0.55168
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	54	10.14370	9.55963	10.72778	9.905	547.76	6.16	14.86	8.45	11.32	8.7	2.87	4.57910	2.13988	0.29120	0.41114	0.32456	-0.39163	0.63889
pH	56	7.99946	7.89520	8.10373	8.075	447.97	6.64	8.88	7.805	8.205	2.24	0.4	0.15157	0.38932	0.05203	-0.76716	0.31900	2.31213	0.62826
Copper (ug/l)	73	5.51233	4.81528	6.20938	5	402.4	2	19	4	7	17	3	8.92554	2.98756	0.34967	1.51260	0.28103	4.81490	0.55522
Iron (ug/l)	10	1533.00000	785.97000	2280.03000	1430	15330	410	2900	510	2500	2490	1990	1090512.22222	1044.27593	330.22905	0.14955	0.68704	-2.09034	1.33425
Zinc (ug/l)	10	9.87500	7.00924	12.74076	10.5	98.75	2.25	17	8.2	11	14.75	2.8	16.04847	4.00605	1.26683	-0.29222	0.68704	1.11118	1.33425

Station: WB-452

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	72	202.02778	189.63057	214.42499	200.5	14546	102	341	164	238	239	74	2783.26682	52.75668	6.21743	0.18369	0.28290	-0.32132	0.55883
Ammonia (mg/l as N)	72	0.32986	0.26823	0.39149	0.3	23.75	0.05	1.2	0.1	0.5	1.15	0.4	0.06878	0.26226	0.03091	1.23142	0.28290	1.50265	0.55883
BOD (mg/l)	34	6.07647	5.07048	7.08246	5.85	206.6	1.3	12	3.8	8	10.7	4.2	8.31276	2.88319	0.49446	0.33252	0.40305	-0.56816	0.78790
COD (mg/l)	72	35.10278	31.86167	38.34388	34	2527.4	2.5	110	27.75	42.35	107.5	14.6	190.23605	13.79261	1.62547	2.11052	0.28290	11.39538	0.55883
Cyanide (mg/l)	72	0.00613	0.00507	0.00718	0.005	0.441	0.005	0.04	0.005	0.005	0.035	0	0.00002	0.00450	0.00053	6.58664	0.28290	47.33045	0.55883
Nitrate (mg/l as N)	72	3.53542	2.61238	4.45846	2.3	254.55	0.05	24	0.8	4.8	23.95	4	15.42940	3.92803	0.46292	2.61223	0.28290	9.86383	0.55883
Total Phosphorus (mg/l as P)	72	0.43278	0.33708	0.52848	0.355	31.16	0.11	3.4	0.275	0.47	3.29	0.195	0.16585	0.40725	0.04800	5.75688	0.28290	40.49999	0.55883
Total Solids (mg/l)	72	681.95833	635.32233	728.59433	649	49101	398	1200	498	804	802	306	39386.68838	198.46080	23.38883	0.63015	0.28290	-0.28064	0.55883
Suspended Solids (mg/l)	72	97.25000	83.62017	110.87983	93	7002	8	254	49	139.5	246	90.5	3364.24648	58.00212	6.83562	0.37612	0.28290	-0.25697	0.55883
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	69	1343.98551	856.09466	1831.87635	450	92735	5	9300	260	1300	9295	1040	4124815.13214	2030.96409	244.49934	2.54140	0.28874	6.38168	0.57010
TOC (mg/l)	0																		
Hardness (mg/l)	72	330.18056	310.55397	349.80714	334.5	23773	112	519	272	386.5	407	114.5	6975.84018	83.52150	9.84310	-0.10690	0.28290	-0.20787	0.55883
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	51	9.68412	9.07647	10.29177	9.44	493.89	5.32	16.2	7.98	11.65	10.88	3.67	4.66777	2.16050	0.30253	0.43696	0.33346	0.14885	0.65592
pH	54	7.97722	7.89879	8.05565	8.005	430.77	6.99	8.47	7.8	8.13	1.48	0.33	0.08257	0.28735	0.03910	-0.74356	0.32456	1.46192	0.63889
Copper (ug/l)	71	7.33662	6.31835	8.35489	6.8	520.9	2	30	5	9	28	4	18.50721	4.30200	0.51055	2.26565	0.28480	9.95885	0.56251
Iron (ug/l)	71	3673.94366	2810.21173	4537.67559	3400	260850	290	29000	1500	4600	28710	3100	13316055.65392	3649.11711	433.07053	4.90072	0.28480	33.23755	0.56251
Zinc (ug/l)	71	20.15211	16.74854	23.55568	20	1430.8	6.9	110	10	20	103.1	10	206.76967	14.37949	1.70653	3.88450	0.28480	21.76936	0.56251

Station: WC-3

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	21	230.61905	216.34126	244.89684	230	4843	155	289	219	246	134	27	983.84762	31.36635	6.84470	-0.46638	0.50119	0.95009	0.97194
Ammonia (mg/l as N)	21	0.05714	0.04898	0.06530	0.05	1.2	0.05	0.1	0.05	0.05	0.05	0	0.00032	0.01793	0.00391	2.20174	0.50119	3.13840	0.97194
BOD (mg/l)	19	1.52105	0.93215	2.10996	1.4	28.9	0.5	5.6	0.5	2.2	5.1	1.7	1.49287	1.22183	0.28031	2.20621	0.52377	6.42580	1.01427
COD (mg/l)	21	14.57619	11.90602	17.24636	14.3	306.1	2.5	29	11	17.1	26.5	6.1	34.40990	5.86600	1.28007	0.59774	0.50119	1.13304	0.97194
Cyanide (mg/l)	21	0.00624	0.00425	0.00822	0.005	0.131	0.005	0.025	0.005	0.005	0.02	0	0.00002	0.00436	0.00095	4.39359	0.50119	19.70723	0.97194
Nitrate (mg/l as N)	21	4.59524	3.22674	5.96374	4.4	96.5	0.5	10	2.6	6.4	9.5	3.8	9.03848	3.00641	0.65605	0.36040	0.50119	-1.10461	0.97194
Total Phosphorus (mg/l as P)	21	0.13952	0.10396	0.17509	0.14	2.93	0.03	0.3	0.08	0.17	0.27	0.09	0.00610	0.07813	0.01705	0.41842	0.50119	-0.58997	0.97194
Total Solids (mg/l)	21	459.66667	441.01017	478.32317	451	9653	396	560	438	475	164	37	1679.83333	40.98577	8.94383	0.96323	0.50119	0.83678	0.97194
Suspended Solids (mg/l)	21	28.80952	13.12240	44.49665	15	605	2	130	8	35	128	27	1187.66190	34.46247	7.52033	2.00525	0.50119	3.65371	0.97194
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	19	319.73684	94.56200	544.91168	140	6075	5	1900	20	390	1895	370	218259.64912	467.18267	107.17906	2.45630	0.52377	6.92851	1.01427
TOC (mg/l)	0																		
Hardness (mg/l)	21	309.52381	292.77473	326.27325	314	6500	200	359	294	336	159	42	1353.96190	36.79622	8.02959	-1.27769	0.50119	2.65605	0.97194
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	17	10.30353	9.26648	11.34058	9.8	175.16	7.24	14.47	9.08	10.68	7.23	1.6	4.06831	2.01701	0.48920	0.93151	0.54975	0.13357	1.06320
pH	17	8.07647	7.92019	8.23275	8.12	137.3	7.3	8.54	8.06	8.3	1.24	0.24	0.09239	0.30395	0.07372	-1.30948	0.54975	2.06068	1.06320
Copper (ug/l)	7	4.45714	1.85283	7.06145	4	31.2	2	9.2	2	7	7.2	5	7.92952	2.81594	1.06433	0.82230	0.79373	-0.52155	1.58745
Iron (ug/l)	3	226.33333	-320.00945	772.67611	110	679	89	480	391				48370.33333	219.93257	126.97813	1.71430	1.22474		
Zinc (ug/l)	7	11.27143	6.32063	16.22222	10	78.9	5.1	20	6.8	17	14.9	10.2	28.65571	5.35310	2.02328	0.79461	0.79373	-0.43315	1.58745

Station: WC-60

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	83	200.12048	192.73427	207.50669	202	16610	123	278	181	222	155	41	1144.22921	33.82646	3.71294	-0.25153	0.26417	-0.07255	0.52261
Ammonia (mg/l as N)	83	0.09819	0.07770	0.11869	0.05	8.15	0.05	0.6	0.05	0.1	0.55	0.05	0.00881	0.09385	0.01030	2.87678	0.26417	10.34935	0.52261
BOD (mg/l)	37	2.02703	1.60766	2.44639	1.7	75	0.5	5.8	1.3	2.3	5.3	1	1.58203	1.25779	0.20678	1.71218	0.38759	2.98709	0.75872
COD (mg/l)	83	22.24458	20.22523	24.26392	19.4	1846.3	8	48.6	16	27	40.6	11	85.52445	9.24794	1.01509	0.99454	0.26417	0.39693	0.52261
Cyanide (mg/l)	82	0.00563	0.00516	0.00611	0.005	0.462	0.005	0.018	0.005	0.005	0.013	0	0.00000	0.00215	0.00024	4.44528	0.26572	20.64767	0.52562
Nitrate (mg/l as N)	82	6.00146	5.32592	6.67701	5.65	492.12	0.2	15	4	7.6	14.8	3.6	9.45272	3.07453	0.33952	0.66807	0.26572	0.68322	0.52562
Total Phosphorus (mg/l as P)	83	0.33036	0.25725	0.40347	0.18	27.42	0.04	1.33	0.11	0.37	1.29	0.26	0.11210	0.33482	0.03675	1.55317	0.26417	1.24472	0.52261
Total Solids (mg/l)	83	528.21687	494.68809	561.74564	498	43842	287	1036	427	591	749	164	23577.87922	153.55090	16.85440	1.03227	0.26417	0.79283	0.52261
Suspended Solids (mg/l)	83	19.63855	15.42339	23.85372	15	1630	2	166	10	26	164	16	372.64825	19.30410	2.11890	5.49174	0.26417	40.50000	0.52261
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	1	0.05000					0.05	0.05	0.05										
E. coli (CFU/100ml)	80	2943.56250	577.46907	5309.65593	300	235485	5	90000	85	1350	89995	1265	113044939.36313	10632.25937	1188.72274	7.25872	0.26891	58.51186	0.53179
TOC (mg/l)	0																		
Hardness (mg/l)	83	294.87952	283.98110	305.77794	301	24475	140	396	262	334	256	72	2491.13165	49.91124	5.47847	-0.57675	0.26417	0.15998	0.52261
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	59	9.65220	8.94944	10.35497	8.94	569.48	6.37	18.3	7.7	11.19	11.93	3.49	7.27218	2.69670	0.35108	1.22033	0.31118	1.31070	0.61326
pH	60	7.89050	7.79485	7.98615	7.92	473.43	6.97	8.83	7.68	8.135	1.86	0.455	0.13711	0.37028	0.04780	-0.04692	0.30869	0.50290	0.60849
Copper (ug/l)	20	7.11500	5.56112	8.66888	7.05	142.3	2	14	4.75	8.5	12	3.75	11.02345	3.32016	0.74241	0.17314	0.51210	-0.26678	0.99238
Iron (ug/l)	8	421.25000	222.08153	620.41847	360	3370	260	1000	310	385	740	75	56755.35714	238.23383	84.22838	2.62024	0.75210	7.15679	1.48088
Zinc (ug/l)	20	27.10000	21.32813	32.87187	20	542	10	46	19	40	36	21	152.09474	12.33267	2.75767	0.26859	0.51210	-1.50090	0.99238

Station: WC-66

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	101	174.91089	168.54097	181.28081	177	17666	98	280	158	192	182	34	1041.16198	32.26704	3.21069	0.29427	0.24022	1.59240	0.47606
Ammonia (mg/l as N)	100	0.09200	0.07352	0.11048	0.05	9.2	0.05	0.5	0.05	0.1	0.45	0.05	0.00867	0.09313	0.00931	2.87018	0.24138	8.35084	0.47833
BOD (mg/l)	50	2.25400	1.87771	2.63029	2.2	112.7	0.5	7.3	1.3	2.6	6.8	1.3	1.75315	1.32406	0.18725	1.62399	0.33660	3.80198	0.66191
COD (mg/l)	100	16.70400	15.69698	17.71102	16.9	1670.4	2.5	32	13.35	20	29.5	6.65	25.75695	5.07513	0.50751	-0.07610	0.24138	0.56709	0.47833
Cyanide (mg/l)	99	0.00545	0.00496	0.00595	0.005	0.54	0.005	0.028	0.005	0.005	0.023	0	0.00001	0.00249	0.00025	8.01844	0.24256	70.38329	0.48063
Nitrate (mg/l as N)	100	4.79500	3.98806	5.60194	4.4	479.5	0.05	16	1.15	7	15.95	5.85	16.53896	4.06681	0.40668	0.83374	0.24138	0.22992	0.47833
Total Phosphorus (mg/l as P)	100	0.08845	0.07868	0.09822	0.08	8.845	0.015	0.24	0.05	0.115	0.225	0.065	0.00243	0.04925	0.00492	1.11658	0.24138	1.26747	0.47833
Total Solids (mg/l)	101	373.91089	360.36709	387.45469	370	37765	256	678	325	405	422	80	4706.86198	68.60657	6.82661	1.17913	0.24022	3.28467	0.47606
Suspended Solids (mg/l)	101	20.32673	16.84263	23.81084	15	2053	2	90	10	24	88	14	311.48218	17.64886	1.75613	2.44620	0.24022	6.63412	0.47606
Dissolved Solids (mg/l)	97	336.39175	323.18749	349.59602	329	32630	186	615	297	367	429	70	4292.26160	65.51535	6.65208	0.94106	0.24498	2.91681	0.48533
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	97	351.54639	201.09812	501.99466	80	34100	5	4000	50	190	3995	140	557226.75043	746.47622	75.79318	3.25165	0.24498	10.49757	0.48533
TOC (mg/l)	0																		
Hardness (mg/l)	101	248.51485	238.76449	258.26522	250	25100	112	374	220	280	262	60	2439.45228	49.39081	4.91457	-0.17145	0.24022	0.43097	0.47606
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	58	9.41569	8.81976	10.01162	9.02	546.11	4.52	16.8	7.98	10.63	12.28	2.65	5.13675	2.26644	0.29760	0.71889	0.31372	0.99906	0.61814
pH	58	7.99155	7.90434	8.07877	8.01	463.51	7.11	8.96	7.79	8.21	1.85	0.42	0.11002	0.33170	0.04355	-0.21436	0.31372	0.89998	0.61814
Copper (ug/l)	16	3.40000	2.43632	4.36368	2	54.4	2	6.6	2	4.45	4.6	2.45	3.27067	1.80850	0.45212	0.84164	0.56431	-0.86741	1.09077
Iron (ug/l)	16	424.37500	197.50684	651.24316	290	6790	150	1500	235	360	1350	125	181266.25000	425.75374	106.43844	2.37254	0.56431	4.46866	1.09077
Zinc (ug/l)	16	4.70625	2.22721	7.18529	2.25	75.3	2.25	15	2.25	4.775	12.75	2.525	21.64396	4.65231	1.16308	1.60494	0.56431	0.97032	1.09077

Station: WCS-34

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Std.Err. Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	20	235.00000	216.08095	253.91905	234	4700	153	301	210.5	270.5	148	60	1634.10526	40.42407	9.03910	-0.32285	0.51210	-0.31029	0.99238
Ammonia (mg/l as N)	20	0.17750	0.05149	0.30351	0.05	3.55	0.05	1.2	0.05	0.2	1.15	0.15	0.07249	0.26925	0.06021	3.24200	0.51210	11.68267	0.99238
BOD (mg/l)	17	1.38235	1.00051	1.76419	1.4	23.5	0.5	2.6	0.5	1.9	2.1	1.4	0.55154	0.74266	0.18012	0.14254	0.54975	-1.35995	1.06320
COD (mg/l)	20	13.98500	11.57363	16.39637	13.05	279.7	2.5	25	10.4	17.05	22.5	6.65	26.54461	5.15234	1.15210	0.10552	0.51210	0.54123	0.99238
Cyanide (mg/l)	19	0.00816	0.00591	0.01040	0.006	0.155	0.005	0.024	0.005	0.009	0.019	0.004	0.00002	0.00466	0.00107	2.37285	0.52377	7.09226	1.01427
Nitrate (mg/l as N)	20	7.08000	5.23345	8.92655	6.75	141.6	0.9	16	4.35	9.35	15.1	5	15.56695	3.94550	0.88224	0.69833	0.51210	0.03303	0.99238
Total Phosphorus (mg/l as P)	20	0.56350	0.22369	0.90331	0.26	11.27	0.03	2.38	0.055	0.79	2.35	0.735	0.52718	0.72607	0.16235	1.46918	0.51210	0.96420	0.99238
Total Solids (mg/l)	20	486.40000	442.74114	530.05886	477	9728	366	705	412.5	527.5	339	115	8702.14737	93.28530	20.85923	1.07501	0.51210	0.71243	0.99238
Suspended Solids (mg/l)	20	15.25000	6.45894	24.04106	9	305	2	81	5	19.5	79	14.5	352.82895	18.78374	4.20017	2.70400	0.51210	8.06412	0.99238
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	19	1488.68421	-321.83927	3299.20769	350	28285	5	16000	80	810	15995	730	14110488.45029	3756.39301	861.77566	3.65264	0.52377	13.88880	1.01427
TOC (mg/l)	0																		
Hardness (mg/l)	20	320.70000	298.68101	342.71899	334	6414	202	368	302.5	352.5	166	50	2213.48421	47.04768	10.52018	-1.44286	0.51210	1.43802	0.99238
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	16	10.08625	9.24511	10.92739	10.135	161.38	6.89	12.2	9.315	11.35	5.31	2.035	2.49177	1.57853	0.39463	-0.61322	0.56431	0.10895	1.09077
pH	16	7.86938	7.73795	8.00080	7.91	125.91	7.5	8.27	7.645	7.99	0.77	0.345	0.06083	0.24664	0.06166	-0.06965	0.56431	-0.93401	1.09077
Copper (ug/l)	8	4.07500	1.78950	6.36050	3	32.6	2	9.6	2	5.5	7.6	3.5	7.47357	2.73378	0.96654	1.31305	0.75210	1.36384	1.48088
Iron (ug/l)	4	282.50000	67.29234	497.70766	230	1130	190	480	195	370	290	175	18291.66667	135.24669	67.62334	1.70834	1.01419	2.85138	2.61861
Zinc (ug/l)	8	9.08750	7.11850	11.05650	10	72.7	5	11	7.85	10.5	6	2.65	5.54696	2.35520	0.83269	-1.31417	0.75210	0.00688	1.48088

Station: WHE-27

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Std.Err. Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	25	254.80000	245.80841	263.79159	253	6370	207	304	241	263	97	22	474.50000	21.78302	4.35660	0.29159	0.46368	0.63767	0.90172
Ammonia (mg/l as N)	25	0.06200	0.04831	0.07569	0.05	1.55	0.05	0.2	0.05	0.05	0.15	0	0.00110	0.03317	0.00663	3.42180	0.46368	12.92384	0.90172
BOD (mg/l)	24	1.09167	0.83439	1.34895	1.1	26.2	0.5	2.4	0.5	1.45	1.9	0.95	0.37123	0.60929	0.12437	0.61808	0.47226	-0.68857	0.91778
COD (mg/l)	25	10.71600	7.44240	13.98960	8.6	267.9	2.5	38	7.3	11	35.5	3.7	62.89473	7.93062	1.58612	2.04420	0.46368	5.13535	0.90172
Cyanide (mg/l)	22	0.00523	0.00484	0.00561	0.005	0.115	0.005	0.009	0.005	0.005	0.004	0	0.00000	0.00087	0.00019	4.30223	0.49096	19.07536	0.95278
Nitrate (mg/l as N)	25	3.54400	3.23007	3.85793	3.5	88.6	2.2	4.9	2.9	4.1	2.7	1.2	0.57840	0.76053	0.15211	0.04391	0.46368	-0.77170	0.90172
Total Phosphorus (mg/l as P)	25	0.09360	0.07357	0.11363	0.1	2.34	0.015	0.22	0.05	0.12	0.205	0.07	0.00236	0.04853	0.00971	0.54783	0.46368	0.54693	0.90172
Total Solids (mg/l)	25	485.76000	465.47796	506.04204	487	12144	393	567	451	519	174	68	2414.27333	49.13526	9.82705	-0.29207	0.46368	-0.81743	0.90172
Suspended Solids (mg/l)	25	18.20000	2.36885	34.03115	8	455	2	194	2	19	192	17	1470.91667	38.35253	7.67051	4.35188	0.46368	20.26137	0.90172
Dissolved Solids (mg/l)	4	445.50000	340.66830	550.33170	447	1782	385	503	388.5	502.5	118	114	4340.33333	65.88121	32.94060	-0.00957	1.01419	-5.94249	2.61861
Sulfate (mg/l)	4	43.25000	13.18823	73.31177	41.5	173	22	68	31.5	55	46	23.5	356.91667	18.89224	9.44612	0.54891	1.01419	1.65482	2.61861
TKN (mg/l as N)	4	0.45000	0.35813	0.54187	0.45	1.8	0.4	0.5	0.4	0.5	0.1	0.1	0.00333	0.05774	0.02887	0.00000	1.01419	-6.00000	2.61861
E. coli (CFU/100ml)	24	1003.33333	368.89368	1637.77299	420	24080	10	6200	105	950	6190	845	2257431.88406	1502.47525	306.69148	2.38963	0.47226	5.89169	0.91778
TOC (mg/l)	4	4.67500	-3.81819	13.16819	2.55	18.7	1	12.6	1.65	7.7	11.6	6.05	28.48917	5.33752	2.66876	1.87693	1.01419	3.63059	2.61861
Hardness (mg/l)	25	333.48000	317.82966	349.13034	340	8337	244	394	320	357	150	37	1437.51000	37.91451	7.58290	-0.95973	0.46368	1.03515	0.90172
Chloride (mg/l)	5	42.40200	5.19167	79.61233	38	212.01	0.01	75	32	67	74.99	35	898.08802	29.96812	13.40215	-0.43146	0.91287	-0.65886	2.00000
Dissolved Oxygen (mg/l)	21	11.06000	10.19213	11.92787	11.32	232.26	8.3	14.85	9.3	12.1	6.55	2.8	3.63505	1.90658	0.41605	0.40875	0.50119	-0.59861	0.97194
pH	21	8.04810	7.92883	8.16736	8.05	169.01	7.6	8.54	7.84	8.24	0.94	0.4	0.06865	0.26200	0.05717	0.02007	0.50119	-0.68901	0.97194
Copper (ug/l)	7	5.65714	1.98761	9.32668	4.8	39.6	2	13	2	8.8	11	6.8	15.74286	3.96773	1.49966	1.20905	0.79373	0.94687	1.58745
Iron (ug/l)	4	260.50000	-61.38757	582.38757	240	1042	52	510	101	420	458	319	40921.00000	202.28940	101.14470	0.43924	1.01419	-1.68105	2.61861
Zinc (ug/l)	7	15.47857	0.54310	30.41404	10	108.35	2.25	50	6.6	20	47.75	13.4	260.79488	16.14914	6.10380	2.08444	0.79373	4.62543	1.58745

Station: WHW-22																			
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	23	224.08696	212.22716	235.94676	222	5154	149	275	211	245	126	34	752.17391	27.42579	5.71867	-0.63579	0.48134	1.43540	0.93476
Ammonia (mg/l as N)	23	0.07826	0.04997	0.10655	0.05	1.8	0.05	0.3	0.05	0.05	0.25	0	0.00428	0.06541	0.01364	2.51258	0.48134	5.90430	0.93476
BOD (mg/l)	22	0.90909	0.57452	1.24367	0.5	20	0.5	3.4	0.5	1.1	2.9	0.6	0.56944	0.75461	0.16088	2.16347	0.49096	4.83448	0.95278
COD (mg/l)	0																		
Cyanide (mg/l)	2	0.00500				0.005	0.01	0.005	0.005		0		0.00000	0.00000	0.00000				
Nitrate (mg/l as N)	23	2.53913	2.19080	2.88746	2.7	58.4	1	4.4	2	3	3.4	1	0.64885	0.80551	0.16796	0.27774	0.48134	0.43803	0.93476
Total Phosphorus (mg/l as P)	23	0.05022	0.02649	0.07394	0.04	1.155	0.015	0.27	0.015	0.07	0.255	0.055	0.00301	0.05487	0.01144	3.16478	0.48134	12.11470	0.93476
Total Solids (mg/l)	23	371.65217	355.52222	387.78212	368	8548	309	472	351	395	163	44	1391.32806	37.30051	7.77769	0.61478	0.48134	1.33392	0.93476
Suspended Solids (mg/l)	23	20.26087	5.79407	34.72767	8	466	2	157	4	21	155	17	1119.20158	33.45447	6.97574	3.42839	0.48134	13.38767	0.93476
Dissolved Solids (mg/l)	6	322.16667	296.58611	347.74722	330	1933	286	348	299	340	62	41	594.16667	24.37553	9.95127	-0.73419	0.84515	-1.17438	1.74078
Sulfate (mg/l)	6	32.66667	28.99114	36.34219	32.5	196	29	39	30	33	10	3	12.26667	3.50238	1.42984	1.29570	0.84515	2.31185	1.74078
TKN (mg/l as N)	6	0.38333	0.30433	0.46233	0.4	2.3	0.3	0.5	0.3	0.4	0.2	0.1	0.00567	0.07528	0.03073	0.31257	0.84515	-0.10381	1.74078
E. coli (CFU/100ml)	22	416.36364	-154.79852	987.52579	30	9160	5	6000	10	190	5995	180	1659495.67100	1288.21414	274.64818	4.27291	0.49096	18.93908	0.95278
TOC (mg/l)	6	2.05000	1.79509	2.30491	2.05	12.3	1.8	2.3	1.8	2.3	0.5	0.5	0.05900	0.24290	0.09916	0.00000	0.84515	-2.90434	1.74078
Hardness (mg/l)	23	277.00000	261.78868	292.21132	284	6371	206	340	258	304	134	46	1237.36364	35.17618	7.33474	-0.50496	0.48134	-0.12037	0.93476
Chloride (mg/l)	6	21.00000	17.36465	24.63535	21	126	16	26	19	23	10	4	12.00000	3.46410	1.41421	0.00000	0.84515	-0.00833	1.74078
Dissolved Oxygen (mg/l)	20	10.83000	10.02755	11.63245	10.5	216.6	8.4	13.88	9.42	11.995	5.48	2.575	2.93983	1.71459	0.38339	0.48633	0.51210	-0.78251	0.99238
pH	20	8.14350	8.02554	8.26146	8.17	162.87	7.4	8.46	8.045	8.325	1.06	0.28	0.06353	0.25205	0.05636	-1.52473	0.51210	3.08119	0.99238
Copper (ug/l)	6	2.83333	0.69118	4.97548	2	17	2	7	2	2	5	0	4.16667	2.04124	0.83333	2.44949	0.84515	6.00000	1.74078
Iron (ug/l)	6	399.66667	81.32271	718.01062	425	2398	56	860	92	540	804	448	92019.86667	303.34777	123.84121	0.34101	0.84515	-0.59863	1.74078
Zinc (ug/l)	6	4.79167	0.82022	8.76311	3.475	28.75	2.25	12	2.25	5.3	9.75	3.05	14.32142	3.78436	1.54496	1.80129	0.84515	3.39188	1.74078

Station: WL-SL																			
	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	65	107.81538	102.79980	112.83096	112	7008	65	159	96	119	94	23	409.71538	20.24143	2.51064	-0.14825	0.29712	0.16022	0.58624
Ammonia (mg/l as N)	66	0.10773	0.07898	0.13648	0.05	7.11	0.01	0.6	0.05	0.2	0.59	0.15	0.01368	0.11696	0.01440	2.63654	0.29495	8.06575	0.58207
BOD (mg/l)	30	1.58333	1.20671	1.95996	1.55	47.5	0.5	4.6	0.5	2	4.1	1.5	1.01730	1.00861	0.18415	1.05431	0.42689	1.42223	0.83275
COD (mg/l)	66	18.63182	16.79664	20.46699	17	1229.7	4	39	13	24	35	11	55.72928	7.46520	0.91890	0.68701	0.29495	-0.13838	0.58207
Cyanide (mg/l)	63	0.00559	0.00502	0.00616	0.005	0.352	0.005	0.018	0.005	0.005	0.013	0	0.00001	0.00227	0.00029	4.51845	0.30159	21.00524	0.59484
Nitrate (mg/l as N)	66	0.17667	0.12576	0.22758	0.1	11.66	0.01	1.3	0.05	0.3	1.29	0.25	0.04289	0.20709	0.02549	3.17874	0.29495	13.69193	0.58207
Total Phosphorus (mg/l as P)	66	0.02985	0.02517	0.03452	0.03	1.97	0.015	0.12	0.015	0.04	0.105	0.025	0.00036	0.01901	0.00234	1.96118	0.29495	6.45146	0.58207
Total Solids (mg/l)	65	220.24615	213.16886	227.32345	215	14316	147	332	201	235	185	34	815.78221	28.56190	3.54267	1.01632	0.29712	2.95656	0.58624
Suspended Solids (mg/l)	65	9.33846	7.55042	11.12651	8	607	2	36	4	13	34	9	52.07115	7.21603	0.89504	1.34099	0.29712	2.12210	0.58624
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	61	46.88525	9.00062	84.76987	5	2860	5	900	5	10	895	5	21880.96995	147.92218	18.93949	4.48982	0.30627	21.52057	0.60384
TOC (mg/l)	0																		
Hardness (mg/l)	65	137.20000	131.14578	143.25422	140	8918	90	186	120	154	96	34	596.97500	24.43307	3.03055	-0.09991	0.29712	-0.69111	0.58624
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	52	10.55019	10.14430	10.95609	10.425	548.61	7.5	13.52	9.475	11.48	6.02	2.005	2.12562	1.45795	0.20218	0.29475	0.33041	-0.64521	0.65009
pH	50	8.15860	8.03413	8.28307	8.185	407.93	7.17	8.95	7.87	8.49	1.78	0.62	0.19181	0.43796	0.06194	-0.19599	0.33660	-0.34018	0.66191
Copper (ug/l)	3	5.00000	-7.90796	17.90796	2	15	2	11			9		27.00000	5.19615	3.00000	1.73205	1.22474		
Iron (ug/l)	0																		
Zinc (ug/l)	3	16.66667	-12.01768	45.35102	10	50	10	30			20		133.33333	11.54701	6.66667	1.73205	1.22474		

Station: WR-19

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	19	177.00000	158.88866	195.11134	165	3363	90	236	155	211	146	56	1412.00000	37.57659	8.62066	-0.14334	0.52377	0.20571	1.01427
Ammonia (mg/l as N)	19	0.08158	0.04730	0.11586	0.05	1.55	0.05	0.3	0.05	0.05	0.25	0	0.00506	0.07112	0.01632	2.29117	0.52377	4.56876	1.01427
BOD (mg/l)	16	2.22500	1.14210	3.30790	1.65	35.6	0.5	7.5	1.2	2.25	7	1.05	4.13000	2.03224	0.50806	2.11346	0.56431	3.74215	1.09077
COD (mg/l)	19	19.87368	15.47485	24.27252	17.6	377.6	9	41	12.6	21	32	8.4	83.29316	9.12651	2.09376	1.20172	0.52377	0.66047	1.01427
Cyanide (mg/l)	18	0.00528	0.00469	0.00586	0.005	0.095	0.005	0.01	0.005	0.005	0.005	0	0.00000	0.00118	0.00028	4.24264	0.53628	18.00000	1.03780
Nitrate (mg/l as N)	19	1.85263	1.42745	2.27781	2.2	35.2	0.3	3	1	2.5	2.7	1.5	0.77819	0.88215	0.20238	-0.64549	0.52377	-1.14210	1.01427
Total Phosphorus (mg/l as P)	19	0.21789	0.14496	0.29082	0.16	4.14	0.07	0.59	0.12	0.26	0.52	0.14	0.02290	0.15131	0.03471	1.67030	0.52377	2.12479	1.01427
Total Solids (mg/l)	19	454.10526	390.29393	517.91659	417	8628	320	890	383	482	570	99	17527.87719	132.39289	30.37301	2.30438	0.52377	6.24389	1.01427
Suspended Solids (mg/l)	19	104.68421	61.34607	148.02236	75	1989	35	313	38	140	278	102	8084.89474	89.91604	20.62815	1.48340	0.52377	1.23887	1.01427
Dissolved Solids (mg/l)	7	314.42857	231.43110	397.42604	289	2201	232	509	270	310	277	40	8053.61905	89.74196	33.91927	2.15352	0.79373	5.28218	1.58745
Sulfate (mg/l)	7	51.28571	29.66387	72.90756	43	359	32	100	38	62	68	24	546.57143	23.37887	8.83638	1.91895	0.79373	3.71464	1.58745
TKN (mg/l as N)	7	0.84286	0.61099	1.07473	0.8	5.9	0.6	1.3	0.6	1	0.7	0.4	0.06286	0.25071	0.09476	1.00622	0.79373	0.70289	1.58745
E. coli (CFU/100ml)	19	489.21053	-168.58476	1147.00581	80	9295	5	6000	20	320	5995	300	1862581.28655	1364.76419	313.09838	4.06816	0.52377	17.07710	1.01427
TOC (mg/l)	7	3.51429	2.71081	4.31776	3.5	24.6	2.4	4.8	2.7	4.2	2.4	1.5	0.75476	0.86877	0.32836	0.17895	0.79373	-1.25437	1.58745
Hardness (mg/l)	19	235.73684	211.52443	259.94925	238	4479	143	324	202	272	181	70	2523.53801	50.23483	11.52466	0.00052	0.52377	-0.25030	1.01427
Chloride (mg/l)	7	29.14286	15.75729	42.52842	24	204	15	58	20	36	43	16	209.47619	14.47329	5.47039	1.54572	0.79373	2.55232	1.58745
Dissolved Oxygen (mg/l)	16	10.02188	8.94755	11.09620	9.9	160.35	6.67	14.7	8.51	11.29	8.03	2.78	4.06483	2.01614	0.50404	0.56493	0.56431	0.63751	1.09077
pH	16	7.98938	7.80898	8.16977	8.03	127.83	7.17	8.46	7.865	8.155	1.29	0.29	0.11461	0.33854	0.08463	-0.84440	0.56431	1.06669	1.09077
Copper (ug/l)	8	5.95000	3.13719	8.76281	5.35	47.6	2	11	3.2	8.75	9	5.55	11.32000	3.36452	1.18954	0.35227	0.75210	-1.10176	1.48088
Iron (ug/l)	8	2491.25000	1084.35224	3898.14776	1900	19930	770	5800	1280	3500	5030	2220	2831983.92857	1682.84994	594.97730	1.13868	0.75210	0.96699	1.48088
Zinc (ug/l)	8	13.97500	8.36062	19.58938	14	111.8	5.7	24	8.05	19	18.3	10.95	45.09929	6.71560	2.37432	0.25188	0.75210	-1.53936	1.48088

Station: WR-46

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	77	177.75325	167.31271	188.19378	177	13687	56	322	149	203	266	54	2115.92515	45.99919	5.24209	0.35689	0.27391	0.92470	0.54146
Ammonia (mg/l as N)	78	0.08910	0.07025	0.10795	0.05	6.95	0.05	0.6	0.05	0.1	0.55	0.05	0.00699	0.08361	0.00947	3.55382	0.27221	17.58244	0.53818
BOD (mg/l)	36	2.71389	2.05909	3.36869	2.35	97.7	0.5	9.2	1.25	3.6	8.7	2.35	3.74523	1.93526	0.32254	1.41142	0.39254	2.40030	0.76808
COD (mg/l)	78	21.88846	17.16924	26.60769	18.7	1707.3	2.5	190	14.1	23.3	187.5	9.2	438.10935	20.93106	2.36998	6.90290	0.27221	55.38697	0.53818
Cyanide (mg/l)	76	0.00507	0.00488	0.00525	0.005	0.385	0	0.009	0.005	0.005	0.009	0	0.00000	0.00082	0.00009	-1.30747	0.27564	26.23025	0.54480
Nitrate (mg/l as N)	78	2.37628	1.27267	3.47989	1.8	185.35	0.05	44	1.2	2.6	43.95	1.4	23.95927	4.89482	0.55423	8.18818	0.27221	70.30767	0.53818
Total Phosphorus (mg/l as P)	78	0.20410	0.13997	0.26824	0.15	15.92	0.015	2.56	0.12	0.2	2.545	0.08	0.08091	0.28445	0.03221	7.57917	0.27221	62.98791	0.53818
Total Solids (mg/l)	78	459.57692	417.65972	501.49413	424.5	35847	233	1690	371	480	1457	109	34564.14336	185.91434	21.05065	4.33802	0.27221	25.54349	0.53818
Suspended Solids (mg/l)	78	90.84615	69.34917	112.34314	56.5	7086	9	534	37	98	525	61	9090.67732	95.34504	10.79570	2.58212	0.27221	7.53626	0.53818
Dissolved Solids (mg/l)	22	329.31818	290.36302	368.27334	317	7245	215	534	276	357	319	81	7719.46537	87.86049	18.73192	1.06652	0.49096	0.70514	0.95278
Sulfate (mg/l)	24	58.20833	47.34736	69.06931	50	1397	22	120	44	67.5	98	23.5	661.56341	25.72087	5.25025	1.09076	0.47226	0.69520	0.91778
TKN (mg/l as N)	78	1.10064	0.86595	1.33533	0.9	85.85	0.05	9.4	0.7	1.2	9.35	0.5	1.08354	1.04093	0.11786	6.77602	0.27221	53.74067	0.53818
E. coli (CFU/100ml)	73	393.83562	199.39382	588.27741	80	28750	5	4400	30	260	4395	230	694521.19482	833.37938	97.53968	3.27806	0.28103	10.96095	0.55522
TOC (mg/l)	22	3.93182	3.22118	4.64246	3.65	86.5	2.6	10.6	3.1	4.2	8	1.1	2.56894	1.60279	0.34172	3.67236	0.49096	15.60629	0.95278
Hardness (mg/l)	78	239.30769	225.82224	252.79314	243	18666	110	410	200	270	300	70	3577.43656	59.81168	6.77234	0.08487	0.27221	0.41111	0.53818
Chloride (mg/l)	24	31.20833	24.45445	37.96222	26.5	749	11	74	21	36.5	63	15.5	255.82428	15.99451	3.26487	1.26727	0.47226	1.29391	0.91778
Dissolved Oxygen (mg/l)	59	10.14305	9.72559	10.56351	10.2	598.44	5.2	13.5	9.1	11.2	8.3	2.1	2.60316	1.61343	0.21005	-0.43664	0.31118	0.52931	0.61326
pH	60	8.06033	7.96347	8.15720	8.12	483.62	7	8.64	7.88	8.33	1.64	0.45	0.14061	0.37498	0.04841	-0.95958	0.30869	0.80881	0.60849
Copper (ug/l)	77	5.98701	4.12054	7.85348	4.6	461	2	71	2	7	69	5	67.62325	8.22334	0.93714	6.71940	0.27391	52.62505	0.54146
Iron (ug/l)	76	3122.36842	1319.58153	4925.15532	1500	237300	290	68000	1100	2650	67710	1550	62241372.98246	7889.32019	904.96709	7.65920	0.27564	63.00343	0.54480
Zinc (ug/l)	77	19.32403	12.13066	26.51739	10	1487.95	2.25	270	10	20	267.75	10	1004.42774	31.69271	3.61172	6.80664	0.27391	52.85698	0.54146

Station: WR-81

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	76	186.71316	176.86243	196.56389	194	14190.2	8.2	263	164	211.5	254.8	47.5	1858.34916	43.10857	4.94489	-1.10682	0.27564	2.70354	0.54480
Ammonia (mg/l as N)	78	0.09808	0.07354	0.12262	0.05	7.65	0.05	0.7	0.05	0.1	0.65	0.05	0.01185	0.10884	0.01232	3.17480	0.27221	12.44458	0.53818
BOD (mg/l)	36	3.81667	2.88006	4.75327	3.05	137.4	0.5	10	1.75	4.95	9.5	3.2	7.66257	2.76814	0.46136	0.92702	0.39254	-0.15397	0.76808
COD (mg/l)	77	21.95844	19.90527	24.01161	21	1690.8	2.5	42	15	28	39.5	13	81.82878	9.04593	1.03088	0.16432	0.27391	-0.73786	0.54146
Cyanide (mg/l)	1	0.00500				0.005	0.005	0.005											
Nitrate (mg/l as N)	78	1.64359	1.41980	1.86737	1.8	128.2	0.05	4	0.7	2.5	3.95	1.8	0.98515	0.99255	0.11238	-0.17675	0.27221	-0.89396	0.53818
Total Phosphorus (mg/l as P)	78	0.24981	0.22102	0.27859	0.22	19.485	0.015	0.66	0.17	0.28	0.645	0.11	0.01630	0.12767	0.01446	1.14485	0.27221	1.28246	0.53818
Total Solids (mg/l)	76	494.59211	473.25035	515.93387	472	37589	283	739	430.5	531	456	100.5	8722.69807	93.39539	10.71319	0.83271	0.27564	0.35092	0.54480
Suspended Solids (mg/l)	76	84.32895	66.56915	102.08875	58.5	6409	10	413	42	88.5	403	46.5	6040.41035	77.72008	8.91510	2.25863	0.27564	5.49927	0.54480
Dissolved Solids (mg/l)	22	397.27273	342.70503	451.84042	375.5	8740	242	684	304	435	442	131	15147.06494	123.07341	26.23934	0.92693	0.49096	0.28444	0.95278
Sulfate (mg/l)	22	75.54545	57.85975	93.23116	62.5	1662	31	180	52	80	149	28	1591.11688	39.88881	8.50432	1.31330	0.49096	1.03510	0.95278
TKN (mg/l as N)	23	1.17174	0.95485	1.38863	1.2	26.95	0.05	2.3	0.8	1.6	2.25	0.8	0.25155	0.50155	0.10458	0.11516	0.48134	0.26462	0.93476
E. coli (CFU/100ml)	74	364.05405	186.07200	542.03611	70	26940	5	4000	20	220	3995	200	590161.42170	768.21964	89.30372	2.96300	0.27920	8.81614	0.55168
TOC (mg/l)	22	4.20455	3.73984	4.66925	4.3	92.5	2.2	6.1	3.8	4.9	3.9	1.1	1.09855	1.04812	0.22346	-0.21107	0.49096	-0.46605	0.95278
Hardness (mg/l)	76	253.59211	242.05768	265.12653	258.5	19273	100	361	225.5	289	261	63.5	2547.89807	50.47671	5.79008	-0.45195	0.27564	0.50637	0.54480
Chloride (mg/l)	22	49.77273	38.03021	61.51524	41	1095	18	105	33	65	87	32	701.42208	26.48437	5.64649	0.93627	0.49096	-0.09430	0.95278
Dissolved Oxygen (mg/l)	58	10.69466	10.25176	11.13755	10.56	620.29	7.85	15.49	9.6	11.75	7.64	2.15	2.83721	1.68440	0.22117	0.53561	0.31372	0.51997	0.61814
pH	59	8.11288	8.00572	8.22004	8.22	478.66	6.93	8.87	7.87	8.42	1.94	0.55	0.16909	0.41120	0.05353	-0.89860	0.31118	0.85964	0.61326
Copper (ug/l)	23	4.42174	3.33588	5.50760	4.3	101.7	2	8.9	2	6.5	6.9	4.5	6.30542	2.51106	0.52359	0.51340	0.48134	-1.04805	0.93476
Iron (ug/l)	22	2232.27273	1280.29218	3184.25327	1450	49110	260	8800	950	2400	8540	1450	4610132.68398	2147.12195	457.76794	1.77784	0.49096	3.07365	0.95278
Zinc (ug/l)	23	14.18261	10.31350	18.05171	12	326.2	5	41	7.4	16	36	8.6	80.05423	8.94730	1.86564	1.60438	0.48134	2.72056	0.93476

Station: WR-162

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	72	218.83333	209.67375	227.99292	227.5	15756	77	299	198	245	222	47	1519.35211	38.97887	4.59370	-0.97220	0.28290	1.65981	0.55883
Ammonia (mg/l as N)	72	0.12986	0.09336	0.16636	0.05	9.35	0.05	0.8	0.05	0.1	0.75	0.05	0.02413	0.15534	0.01831	2.62885	0.28290	7.15767	0.55883
BOD (mg/l)	34	4.27647	3.11117	5.44177	3.45	145.4	0.5	13	1.9	5.2	12.5	3.3	11.15398	3.33976	0.57276	1.23033	0.40305	0.80615	0.78790
COD (mg/l)	72	21.64861	19.64825	23.64897	20.1	1558.7	9	57.3	15.55	26.4	48.3	10.85	72.46394	8.51258	1.00322	1.33516	0.28290	3.15656	0.55883
Cyanide (mg/l)	71	0.00534	0.00505	0.00563	0.005	0.379	0.005	0.014	0.005	0.005	0.009	0	0.00000	0.00122	0.00014	5.60925	0.28480	37.28058	0.56251
Nitrate (mg/l as N)	72	2.45556	2.21554	2.69558	2.6	176.8	0.05	4.5	1.8	3.1	4.45	1.3	1.04328	1.02141	0.12037	-0.28134	0.28290	-0.41950	0.55883
Total Phosphorus (mg/l as P)	72	0.39099	0.32538	0.45659	0.285	28.151	0.04	1.13	0.195	0.575	1.09	0.38	0.07795	0.27919	0.03290	1.05758	0.28290	0.05866	0.55883
Total Solids (mg/l)	72	551.23611	517.34445	585.12777	521	39689	242	984	447	618	742	171	20801.39417	144.22688	16.99730	0.64308	0.28290	0.46621	0.55883
Suspended Solids (mg/l)	72	57.18056	34.60001	79.76110	34.5	4117	4	748	22	56	744	34	9233.69933	96.09214	11.32457	5.76427	0.28290	38.85819	0.55883
Dissolved Solids (mg/l)	22	510.50000	436.21637	584.78363	477.5	11231	269	827	367	629	558	262	28070.07143	167.54125	35.71992	0.47013	0.49096	-0.84932	0.95278
Sulfate (mg/l)	22	91.54545	69.65514	113.43577	80	2014	31	190	50	120	159	70	2437.59307	49.37199	10.52614	0.72836	0.49096	-0.69456	0.95278
TKN (mg/l as N)	22	1.29091	1.07160	1.51022	1.2	28.4	0.6	2.3	0.9	1.6	1.7	0.7	0.24468	0.49465	0.10546	0.64407	0.49096	-0.16831	0.95278
E. coli (CFU/100ml)	69	476.52174	247.47366	705.56982	150	32880	5	5500	40	410	5495	370	909101.69437	953.46825	114.78409	3.59540	0.28874	14.12813	0.57010
TOC (mg/l)	22	4.86364	4.16226	5.56501	4.6	107	2.5	8.9	3.7	5.8	6.4	2.1	2.50242	1.58191	0.33726	0.66089	0.49096	0.41788	0.95278
Hardness (mg/l)	72	290.75000	274.45029	307.04971	297.5	20934	140	682	270	313	542	43	4811.34507	69.36386	8.17461	2.07642	0.28290	13.78709	0.55883
Chloride (mg/l)	22	81.63636	62.52119	100.75153	68	1796	25	155	49	125	130	76	1858.71861	43.11286	9.19169	0.43506	0.49096	-1.13692	0.95278
Dissolved Oxygen (mg/l)	55	10.43945	10.02786	10.85105	10.3	574.17	7.87	14.29	9.25	11.51	6.42	2.26	2.31809	1.52253	0.20530	0.34968	0.32174	-0.33405	0.63351
pH	56	8.06143	7.94797	8.17488	8.15	451.44	6.74	8.81	7.875	8.325	2.07	0.45	0.17948	0.42365	0.05661	-0.90843	0.31900	1.31518	0.62826
Copper (ug/l)	23	4.85217	3.61725	6.08709	4.6	111.6	2	10	2	7.5	8	5.5	8.15534	2.85575	0.59547	0.50886	0.48134	-1.12743	0.93476
Iron (ug/l)	23	1318.69565	473.66782	2163.72348	650	30330	160	9200	470	1100	9040	630	381861.185771	1954.12688	407.46362	3.38616	0.48134	12.66274	0.93476
Zinc (ug/l)	23	16.47391	12.95066	19.99716	15	378.9	6.8	45	10	19	38.2	9	66.38202	8.14752	1.69887	2.09669	0.48134	6.12242	0.93476

Station: WR-192

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	81	220.48148	210.47615	230.48681	229	17859	61	339	198	249	278	51	2047.45278	45.24879	5.02764	-0.98652	0.26730	1.98133	0.52867
Ammonia (mg/l as N)	80	0.18750	0.14430	0.23070	0.1	15	0.05	0.8	0.05	0.25	0.75	0.2	0.03769	0.19414	0.02171	1.45549	0.26891	1.06140	0.53179
BOD (mg/l)	39	3.32308	2.60661	4.03954	2.4	129.6	0.5	11	1.6	4.4	10.5	2.8	4.88498	2.21020	0.35392	1.55693	0.37822	2.99102	0.74100
COD (mg/l)	80	20.96250	18.90404	23.02096	20	1677	7	72.5	15	24.45	65.5	9.45	85.56009	9.24987	1.03417	2.56209	0.26891	11.77305	0.53179
Cyanide (mg/l)	81	0.00620	0.00544	0.00695	0.005	0.502	0.005	0.026	0.005	0.006	0.021	0.001	0.00001	0.00340	0.00038	4.38377	0.26730	21.12807	0.52867
Nitrate (mg/l as N)	80	2.86125	2.62124	3.10126	2.8	228.9	0.7	5.5	2.05	3.6	4.8	1.55	1.16316	1.07850	0.12058	0.28669	0.26891	-0.37634	0.53179
Total Phosphorus (mg/l as P)	80	0.41763	0.34868	0.48657	0.315	33.41	0.03	1.25	0.205	0.515	1.22	0.31	0.09600	0.30983	0.03464	1.15529	0.26891	0.38049	0.53179
Total Solids (mg/l)	81	567.90123	532.26405	603.53842	524	46000	268	1089	474	633	821	159	25975.14012	161.16805	17.90756	1.00065	0.26730	1.14695	0.52867
Suspended Solids (mg/l)	81	52.13580	27.58243	76.68917	24	4223	2	936	16	42	934	26	12330.29383	111.04186	12.33798	6.67043	0.26730	51.41333	0.52867
Dissolved Solids (mg/l)	21	554.76190	481.15089	628.37292	524	11650	310	933	461	684	623	223	26151.19048	161.71330	35.28873	0.56616	0.50119	0.05218	0.97194
Sulfate (mg/l)	21	102.47619	77.60923	127.34316	86	2152	38	240	65	120	202	55	2984.36190	54.62931	11.92109	0.98753	0.50119	0.52970	0.97194
TKN (mg/l as N)	21	1.14762	1.01365	1.28159	1.1	24.1	0.8	1.9	0.9	1.3	1.1	0.4	0.08662	0.29431	0.06422	0.80696	0.50119	0.57488	0.97194
E. coli (CFU/100ml)	78	972.17949	557.62679	1386.73218	200	75830	5	8400	60	700	8395	640	3380652.98035	1838.65521	208.18671	2.55289	0.27221	5.95632	0.53818
TOC (mg/l)	21	4.94286	4.32179	5.56392	4.8	103.8	2.8	9.1	4.3	5.5	6.3	1.2	1.86157	1.36439	0.29774	1.31701	0.50119	3.39425	0.97194
Hardness (mg/l)	81	289.08642	276.11759	302.05525	300	23416	100	421	258	329	321	71	3439.95494	58.65113	6.51679	-1.03439	0.26730	1.43110	0.52867
Chloride (mg/l)	21	88.28571	69.80003	106.77140	81	1854	32	180	64	115	148	51	1649.21429	40.61052	8.86194	0.48510	0.50119	-0.25036	0.97194
Dissolved Oxygen (mg/l)	62	9.99548	9.59547	10.39550	9.8	619.72	6.92	13.4	8.72	11.21	6.48	2.49	2.48113	1.57516	0.20005	0.13787	0.30390	-0.82005	0.59929
pH	63	7.97571	7.88871	8.06272	7.96	502.47	6.88	8.88	7.81	8.21	2	0.4	0.11934	0.34546	0.04352	-0.40355	0.30159	1.22259	0.59484
Copper (ug/l)	79	6.67089	5.48725	7.85452	6	527	2	38	4	8	36	4	27.92465	5.28438	0.59454	3.69728	0.27054	18.29995	0.53495
Iron (ug/l)	24	852.91667	421.31035	1284.52298	420	20470	200	4200	300	810	4000	510	1044743.29710	1022.12685	208.64077	2.23662	0.47226	4.56065	0.91778
Zinc (ug/l)	79	18.31392	15.12847	21.49938	17	1446.8	5	100	10	20	95	10	202.25301	14.22157	1.60005	4.17099	0.27054	21.06725	0.53495

Station: WR-210

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	84	230.91667	223.10657	238.72676	240.5	19397	137	290	213.5	257	153	43.5	1295.20984	35.98902	3.92672	-0.78992	0.26265	0.05887	0.51966
Ammonia (mg/l as N)	85	0.22471	0.17353	0.27588	0.2	19.1	0.05	1.6	0.05	0.3	1.55	0.25	0.05629	0.23725	0.02573	3.03537	0.26115	13.56955	0.51676
BOD (mg/l)	39	3.10513	2.60826	3.60200	3	121.1	0.5	6.6	1.9	4.4	6.1	2.5	2.34945	1.53279	0.24544	0.49105	0.37822	-0.44297	0.74100
COD (mg/l)	85	21.82235	19.44921	24.19550	20	1854.9	7	81.2	15	25.6	74.2	10.6	121.05080	11.00231	1.19337	2.56149	0.26115	10.42323	0.51676
Cyanide (mg/l)	85	0.00784	0.00676	0.00891	0.005	0.666	0.002	0.033	0.005	0.009	0.031	0.004	0.00002	0.00496	0.00054	2.61021	0.26115	8.68573	0.51676
Nitrate (mg/l as N)	85	3.03882	2.78539	3.29225	2.9	258.3	1.1	7.3	2.3	3.7	6.2	1.4	1.38050	1.17495	0.12744	1.08162	0.26115	2.11419	0.51676
Total Phosphorus (mg/l as P)	85	0.51200	0.42370	0.60030	0.38	43.52	0.06	1.75	0.22	0.67	1.69	0.45	0.16759	0.40938	0.04440	1.25022	0.26115	0.80504	0.51676
Total Solids (mg/l)	84	611.46429	562.39441	660.53416	541	51363	2	1590	475.5	687	1588	211.5	51127.81799	226.11461	24.67113	1.37781	0.26265	4.10605	0.51966
Suspended Solids (mg/l)	84	64.01190	24.48822	103.53559	21	5377	2	1420	12	37.5	1418	25.5	33169.74684	182.12563	19.87154	6.18700	0.26265	41.65957	0.51966
Dissolved Solids (mg/l)	21	604.33333	516.09949	692.56717	591	12691	265	1035	479	682	770	203	37573.03333	193.83765	42.29884	0.52459	0.50119	0.11080	0.97194
Sulfate (mg/l)	21	115.38095	87.48511	143.27679	110	2423	29	270	68	140	241	72	3755.64762	61.28334	13.37312	0.87242	0.50119	0.71767	0.97194
TKN (mg/l as N)	85	1.35176	1.22207	1.48146	1.3	114.9	0.4	3.8	1	1.5	3.4	0.5	0.36157	0.60131	0.06522	1.71866	0.26115	4.33017	0.51676
E. coli (CFU/100ml)	80	1541.81250	760.90218	2322.72282	365	123345	5	22000	105	1100	21995	995	12313731.16693	3509.09264	392.32848	4.12618	0.26891	18.91204	0.53179
TOC (mg/l)	21	4.83333	4.21683	5.44984	4.7	101.5	2.8	7.8	3.9	5.6	5	1.7	1.83433	1.35438	0.29555	0.51072	0.50119	-0.34368	0.97194
Hardness (mg/l)	84	305.60714	294.06911	317.14517	313.5	25671	164	394	273	338.5	230	65.5	2826.77151	53.16739	5.80104	-0.59137	0.26265	-0.10473	0.51966
Chloride (mg/l)	21	104.52381	81.30772	127.73990	96	2195	30	210	65	125	180	60	2601.26190	51.00257	11.12967	0.53912	0.50119	-0.34354	0.97194
Dissolved Oxygen (mg/l)	62	9.85516	9.45088	10.25944	9.8	611.02	6.27	13.46	8.77	11	7.19	2.23	2.53427	1.59194	0.20218	-0.06469	0.30390	-0.31071	0.59929
pH	63	7.81841	7.72797	7.90885	7.8	492.56	6.61	8.63	7.6	8.09	2.02	0.49	0.12896	0.35911	0.04524	-0.38963	0.30159	1.34830	0.59484
Copper (ug/l)	84	7.41667	6.14511	8.68822	6	623	2	43	4	8.45	41	4.45	34.33177	5.85933	0.63931	3.36637	0.26265	16.41959	0.51966
Iron (ug/l)	84	1956.54762	665.28998	3247.80525	570	164350	90	50000	365	1150	49910	785	35404061.43144	5950.13121	649.21254	6.89559	0.26265	53.12606	0.51966
Zinc (ug/l)	84	23.30357	18.20533	28.40181	20	1957.5	8.5	190	10	20	181.5	10	551.90975	23.49276	2.56327	4.88815	0.26265	31.01522	0.51966

Station: WR-248

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	79	233.12658	224.09433	242.15884	240	18417	123	297	201	261	174	60	1626.08634	40.32476	4.53689	-0.63631	0.27054	0.04503	0.53495
Ammonia (mg/l as N)	80	0.09375	0.07788	0.10962	0.05	7.5	0.05	0.4	0.05	0.1	0.35	0.05	0.00509	0.07132	0.00797	1.83582	0.26891	3.58557	0.53179
BOD (mg/l)	37	2.11892	1.46274	2.77510	1.7	78.4	0.5	9.7	1	2.8	9.2	1.8	3.87324	1.96806	0.32355	2.38462	0.38759	6.82794	0.75872
COD (mg/l)	80	15.42500	14.06479	16.78521	14	1234	2.5	34.4	11.25	17.85	31.9	6.6	37.35937	6.11223	0.68337	0.96068	0.26891	0.84758	0.53179
Cyanide (mg/l)	1	0.00500				0.005	0.005	0.005											
Nitrate (mg/l as N)	80	3.17125	2.88725	3.45525	2.8	253.7	0.7	7.2	2.4	3.9	6.5	1.5	1.62866	1.27619	0.14268	0.98046	0.26891	1.11239	0.53179
Total Phosphorus (mg/l as P)	80	0.26088	0.22916	0.29259	0.22	20.87	0.03	0.62	0.17	0.335	0.59	0.165	0.02031	0.14252	0.01593	0.89477	0.26891	0.08248	0.53179
Total Solids (mg/l)	80	517.85000	495.82052	539.87948	497.5	41428	362	934	447	578	572	131	9799.31899	98.99151	11.06759	1.22566	0.26891	2.70656	0.53179
Suspended Solids (mg/l)	80	24.83750	19.74182	29.93318	19.5	1987	2	120	9	32	118	23	524.31503	22.89793	2.56007	1.98974	0.26891	4.94191	0.53179
Dissolved Solids (mg/l)	24	492.20833	449.63920	534.77747	491.5	11813	331	693	403	568.5	362	165.5	10163.04167	100.81191	20.57815	0.23786	0.47226	-0.90202	0.91778
Sulfate (mg/l)	23	81.95652	67.63958	96.27346	81	1885	38	155	54	100	117	46	1096.13439	33.10792	6.90348	0.51983	0.48134	-0.57950	0.93476
TKN (mg/l as N)	23	0.83043	0.70306	0.95781	0.8	19.1	0.3	1.4	0.6	1	1.1	0.4	0.08676	0.29455	0.06142	0.68979	0.48134	0.06966	0.93476
E. coli (CFU/100ml)	77	551.62338	294.73172	808.51503	220	42475	5	8000	80	550	7995	470	1281016.73787	1131.82010	128.98287	4.86296	0.27391	27.27407	0.54146
TOC (mg/l)	23	3.64348	3.23535	4.05161	3.6	83.8	1.4	5.7	3	4.3	4.3	1.3	0.89075	0.94380	0.19680	-0.08480	0.48134	0.64391	0.93476
Hardness (mg/l)	79	311.53165	300.22612	322.83718	324	24611	186	388	282	342	202	60	2547.61117	50.47387	5.67875	-0.68309	0.27054	-0.02877	0.53495
Chloride (mg/l)	23	62.95652	51.14011	74.77293	56	1448	29	110	40	90	81	50	746.67984	27.32544	5.69775	0.42324	0.48134	-1.22711	0.93476
Dissolved Oxygen (mg/l)	62	10.31371	9.85021	10.77721	10.3	639.45	6.4	15.1	9.06	11.59	8.7	2.53	3.33120	1.82516	0.23180	0.17199	0.30390	-0.14039	0.59929
pH	63	7.98571	7.90270	8.06873	8.02	503.1	7	8.6	7.8	8.21	1.6	0.41	0.10864	0.32961	0.04153	-0.77543	0.30159	0.76744	0.59484
Copper (ug/l)	22	3.70455	2.70762	4.70147	2	81.5	2	9.6	2	5	7.6	3	5.05569	2.24849	0.47938	1.18748	0.49096	0.70647	0.95278
Iron (ug/l)	22	880.90909	401.94290	1359.87528	505	19380	200	4900	280	730	4700	450	1166989.61039	1080.27293	230.31496	2.82346	0.49096	9.04193	0.95278
Zinc (ug/l)	22	12.61136	8.93740	16.28533	9.8	277.45	2.25	40	8	16	37.75	8	68.66379	8.28636	1.76666	1.99194	0.49096	5.0124	0.95278

Station: WR-279

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Err.
Alkalinity (mg/l)	78	242.98718	232.07062	253.90374	257.5	18953	84	341	220	274	257	54	2344.29853	48.41796	5.48225	-0.97978	0.27221	0.88532	0.53818
Ammonia (mg/l as N)	78	0.09359	0.07459	0.11259	0.05	7.3	0.05	0.4	0.05	0.1	0.35	0.05	0.00710	0.08427	0.00954	1.92746	0.27221	2.70774	0.53818
BOD (mg/l)	36	2.26389	1.45144	3.07634	1.55	81.5	0.5	12	1	2.45	11.5	1.45	5.76580	2.40121	0.40020	2.60557	0.39254	7.69162	0.76808
COD (mg/l)	78	18.74231	16.27483	21.20978	15	1461.9	8	65	12	20	57	8	119.76949	10.94392	1.23916	2.08098	0.27221	4.49274	0.53818
Cyanide (mg/l)	77	0.00538	0.00508	0.00568	0.005	0.414	0.005	0.014	0.005	0.005	0.009	0	0.00000	0.00133	0.00015	4.70077	0.27391	25.37531	0.54146
Nitrate (mg/l as N)	78	2.78846	2.49357	3.08335	2.55	217.5	0.2	9.3	2	3.3	9.1	1.3	1.71064	1.30792	0.14809	1.74521	0.27221	7.15237	0.53818
Total Phosphorus (mg/l as P)	78	0.31256	0.26967	0.35545	0.26	24.38	0.04	0.85	0.16	0.44	0.81	0.28	0.03619	0.19022	0.02154	0.81663	0.27221	0.04532	0.53818
Total Solids (mg/l)	77	555.31169	528.26047	582.36291	528	42759	392	1002	474	617	610	143	14204.58578	119.18299	13.58216	1.21743	0.27391	1.74648	0.54146
Suspended Solids (mg/l)	77	41.29870	20.97783	61.61957	17	3180	2	720	7	39	718	32	8015.65960	89.53022	0.20292	0.69913	0.27391	44.38208	0.54146
Dissolved Solids (mg/l)	21	518.76190	446.62830	590.89551	507	10894	213	756	376	655	543	279	25111.99048	158.46763	34.58047	-0.11505	0.50119	-0.97021	0.97194
Sulfate (mg/l)	21	110.42857	81.26784	139.59391	88	2319	21	205	54	170	184	116	4103.95714	64.06214	13.97950	0.29383	0.50119	-1.56057	0.97194
TKN (mg/l as N)	22	0.78182	0.63468	0.92896	0.7	17.2	0.3	1.8	0.6	0.8	1.5	0.2	0.11013	0.33186	0.07075	1.67155	0.49096	3.48335	0.95278
E. coli (CFU/100ml)	74	1147.16216	634.14876	1660.17556	255	84890	5	15000	80	1000	14995	920	4903156.90485	2214.30732	257.40800	3.95385	0.27920	20.73847	0.55168
TOC (mg/l)	21	4.23333	3.25468	5.21198	3.5	88.9	2.2	12.9	3.2	4.2	10.7	1	4.62233	2.14996	0.46916	3.53987	0.50119	14.42581	0.97194
Hardness (mg/l)	78	320.33333	307.30761	333.35905	340.5	24986	134	412	298	358	278	60	3337.67965	57.77265	6.54147	-1.06694	0.27221	0.82521	0.53818
Chloride (mg/l)	21	53.23810	43.51577	62.96042	54	1118	21	89	36	71	68	35	456.19048	21.35862	4.66083	0.08037	0.50119	-1.11775	0.97194
Dissolved Oxygen (mg/l)	57	10.17825	9.64265	10.71384	9.9	580.16	6.12	16.6	8.73	11.6	10.48	2.87	4.07460	2.01856	0.26737	0.49676	0.31633	0.40820	0.62313
pH	59	7.99627	7.91393	8.07862	8.06	471.78	6.93	8.57	7.86	8.19	1.64	0.33	0.09984	0.31598	0.04114	-1.31860	0.31118	2.24366	0.61326
Copper (ug/l)	79	5.50633	4.74135	6.27131	5	435	2	27	4	7	25	3	11.66419	3.41529	0.38425	3.40091	0.27054	19.42203	0.53495
Iron (ug/l)	24	1113.04167	440.22442	1785.85892	430	26713	80	6500	175	1250	6420	1075	2538798.56341	1593.36078	325.24341	2.33191	0.47226	5.46097	0.91778
Zinc (ug/l)	36	18.64167	12.60063	24.68271	14	671.1	5	110	10	20	105	10	318.77736	17.85434	2.97572	4.11599	0.39254	20.24788	0.76808

Station: WR-293

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	111	242.92793	233.04883	252.80703	254	26965	73	343	223	277	270	54	2758.37658	52.52025	4.98500	-1.05715	0.22943	1.17925	0.45504
Ammonia (mg/l as N)	111	0.08784	0.07388	0.10180	0.05	9.75	0.05	0.5	0.05	0.1	0.45	0.05	0.00551	0.07423	0.00705	2.61871	0.22943	8.76575	0.45504
BOD (mg/l)	55	2.13636	1.49586	2.77687	1.6	117.5	0.5	15	1.1	2.2	14.5	1.1	5.61347	2.36928	0.31947	3.81299	0.32174	17.36452	0.63351
COD (mg/l)	110	16.99545	14.96244	19.02847	14	1869.5	2.5	65	11	19	62.5	8	115.73915	10.75821	1.02576	2.29941	0.23045	6.51092	0.45702
Cyanide (mg/l)	109	0.00509	0.00499	0.00520	0.005	0.555	0.005	0.009	0.005	0.005	0.004	0	0.00000	0.00055	0.00005	6.05378	0.23147	36.17880	0.45903
Nitrate (mg/l as N)	111	2.19685	2.00784	2.38585	2	243.85	0.05	6.6	1.4	2.9	6.55	1.5	1.00965	1.00481	0.09537	0.99439	0.22943	2.27773	0.45504
Total Phosphorus (mg/l as P)	111	0.21333	0.18147	0.24520	0.16	23.68	0.04	0.86	0.09	0.28	0.82	0.19	0.02870	0.16940	0.01608	1.67511	0.22943	2.87489	0.45504
Total Solids (mg/l)	110	557.24545	534.21790	580.27301	529.5	61297	381	897	462	615	516	153	14848.93920	121.85622	11.61854	1.05126	0.23045	0.68351	0.45702
Suspended Solids (mg/l)	108	44.40741	26.60649	62.20833	14	4796	2	610	6.5	39.5	608	33	8708.29976	93.31827	8.97955	4.54192	0.23252	23.73851	0.46106
Dissolved Solids (mg/l)	107	491.30841	464.30323	518.31359	482	52570	198	842	400	573	644	173	19852.21531	140.89789	13.62111	0.39432	0.23357	-0.02201	0.46311
Sulfate (mg/l)	110	108.94545	96.93045	120.96046	99	11984	16	300	58	145	284	87	4042.47406	63.58045	6.06216	0.89118	0.23045	0.37313	0.45702
TKN (mg/l as N)	110	0.87273	0.77244	0.97301	0.7	96	0.3	3.6	0.6	1	3.3	0.4	0.28163	0.53069	0.05060	2.81223	0.23045	10.83277	0.45702
E. coli (CFU/100ml)	103	1846.01942	1058.25992	2633.77891	270	190140	5	29000	70	2600	28995	2530	16246588.41138	4030.70570	397.15723	4.60515	0.23794	25.32868	0.47163
TOC (mg/l)	22	4.30455	3.17387	5.43522	3.8	94.7	2	14.9	3.2	4.5	12.9	1.3	6.50331	2.55016	0.54370	3.68344	0.49096	15.50949	0.95278
Hardness (mg/l)	111	316.31532	304.61270	328.01793	331	35111	128	424	284	359	296	75	3870.65422	62.21458	5.90515	-0.93794	0.22943	0.45855	0.45504
Chloride (mg/l)	28	43.23214	36.13312	50.33117	44	1210.5	2.5	75	31	52	72.5	21	335.17560	18.30780	3.45985	-0.03008	0.44052	-0.33668	0.85833
Dissolved Oxygen (mg/l)	59	10.11712	9.58209	10.65215	9.95	596.91	5.63	15.37	8.5	11.9	9.74	3.4	4.21504	2.05306	0.26729	0.10313	0.31118	-0.36303	0.61326
pH	61	7.95328	7.87605	8.03050	8.02	485.15	7.07	8.41	7.8	8.19	1.34	0.39	0.09092	0.30153	0.03861	-0.97400	0.30627	0.78524	0.60384
Copper (ug/l)	132	4.88864	4.26446	5.51281	4	645.3	2	25	2	6	23	4	13.14101	3.62505	0.31552	2.75702	0.21083	10.99923	0.41867
Iron (ug/l)	36	1054.00000	396.87563	1711.12437	370	37944	87	8300	180	765	8213	585	3771893.20000	1942.13625	323.68937	3.10420	0.39254	9.42832	0.76808
Zinc (ug/l)	132	14.69091	12.57034	16.81148	10	1939.2	2.25	90	10	20	87.75	10	151.67728	12.31573	1.07195	3.66755	0.21083	16.83820	0.41867

Station: WR-309

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Error	Skewness	Std.Err.	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	74	237.31081	226.43751	248.18411	244	17561	90	337	214	272	247	58	2202.62810	46.93216	5.45575	-0.70549	0.27920	0.49716	0.55168
Ammonia (mg/l as N)	74	0.13784	0.10087	0.17481	0.05	10.2	0.05	0.9	0.05	0.2	0.85	0.15	0.02547	0.15958	0.01855	3.18448	0.27920	11.52369	0.55168
BOD (mg/l)	36	2.28333	1.74497	2.82170	1.9	82.2	0.5	6.7	1.2	3.1	6.2	1.9	2.53171	1.59114	0.26519	1.06193	0.39254	0.74053	0.76808
COD (mg/l)	74	17.08784	15.46951	18.70616	16	1264.5	2.5	44	13	19	41.5	6	48.79204	6.98513	0.81200	1.58887	0.27920	4.07098	0.55168
Cyanide (mg/l)	74	0.00541	0.00514	0.00567	0.005	0.4	0.005	0.01	0.005	0.005	0.005	0	0.00000	0.00116	0.00013	2.95884	0.27920	7.89075	0.55168
Nitrate (mg/l as N)	74	3.17973	2.82971	3.52975	3.1	235.3	0.3	6.5	2	4.1	6.2	2.1	2.28246	1.51078	0.17562	0.24246	0.27920	-0.69149	0.55168
Total Phosphorus (mg/l as P)	74	0.36122	0.28124	0.44119	0.235	26.73	0.015	1.35	0.12	0.41	1.335	0.29	0.11916	0.34519	0.04013	1.50311	0.27920	1.21918	0.55168
Total Solids (mg/l)	74	653.59459	593.50345	713.68574	566	48366	356	1310	466	681	954	215	67272.76490	259.36994	30.15114	1.16582	0.27920	0.27150	0.55168
Suspended Solids (mg/l)	73	23.98630	15.80036	32.17224	11	1751	2	188	6	26	186	20	1230.95814	35.08501	4.10639	2.82381	0.28103	8.74747	0.55522
Dissolved Solids (mg/l)	23	622.47826	492.44573	752.51079	523	14317	198	1267	403	786	1069	383	90420.62451	300.70022	62.70033	0.85262	0.48134	-0.38023	0.93476
Sulfate (mg/l)	22	188.45455	118.19146	258.28963	140	4146	22	595	69	270	573	201	24808.73593	157.50789	33.58080	1.11471	0.49096	0.47542	0.95278
TKN (mg/l as N)	74	0.98378	0.89040	1.07717	0.85	72.8	0.4	2.2	0.7	1.2	1.8	0.5	0.16247	0.40308	0.04686	1.18957	0.27920	0.92811	0.55168
E. coli (CFU/100ml)	71	2946.69014	600.80442	5292.57586	450	209215	5	80000	190	1700	79995	1510	98227107.81690	9910.95898	1176.21443	7.00241	0.28480	53.89151	0.56251
TOC (mg/l)	22	4.69545	3.86164	5.52926	4.5	103.3	2.3	11.8	3.6	5.1	9.5	1.5	3.53665	1.88060	0.40094	2.63462	0.49096	9.82817	0.95278
Hardness (mg/l)	74	319.95946	305.29048	334.62844	343	23677	122	448	274	366	326	92	4008.83395	63.31535	7.36026	-0.80950	0.27920	0.46973	0.55168
Chloride (mg/l)	22	55.40909	41.82397	68.99421	44.5	1219	15	115	31	74	100	43	938.82468	30.64025	6.53252	0.55742	0.49096	-0.95682	0.95278
Dissolved Oxygen (mg/l)	57	9.83930	9.40293	10.27566	9.7	560.84	6.3	13.09	8.7	10.9	6.79	2.2	2.70463	1.64458	0.21783	0.05324	0.31633	-0.52540	0.62313
pH	59	7.90492	7.82718	7.98265	7.9	466.39	7.19	8.46	7.77	8.16	1.27	0.39	0.08899	0.29831	0.03884	-0.55272	0.31118	-0.02931	0.61326
Copper (ug/l)	75	5.00133	4.41663	5.58603	5	375.1	2	13	4	6	11	2	6.45824	2.54131	0.29344	0.93501	0.27740	0.58382	0.54821
Iron (ug/l)	23	998.69565	311.11164	1686.27966	230	22970	100	6500	150	1200	6400	1050	2528220.94862	1590.03803	331.54585	2.40374	0.48134	5.99898	0.93476
Zinc (ug/l)	75	20.57733	17.55793	23.59674	20	1543.3	5.6	65	10	30	59.4	20	172.22178	13.12333	1.51535	1.37599	0.27740	1.80379	0.54821

Station: WR-319

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	79	227.29114	216.65581	237.92647	230	17956	86	331	201	258	245	57	2254.51672	47.48175	5.34211	-0.50251	0.27054	0.63343	0.53495
Ammonia (mg/l as N)	79	0.08481	0.06767	0.10195	0.05	6.7	0.05	0.5	0.05	0.1	0.45	0.05	0.00586	0.07652	0.00861	3.01859	0.27054	11.28452	0.53495
BOD (mg/l)	39	1.76923	1.30059	2.23788	1.4	69	0.5	5.8	0.5	2.2	5.3	1.7	2.09008	1.44571	0.23150	1.55411	0.37822	1.90685	0.74100
COD (mg/l)	79	16.56962	14.63632	18.50292	14	1309	7	52	11	19	45	8	74.49907	8.63128	0.97110	2.00765	0.27054	4.77305	0.53495
Cyanide (mg/l)	78	0.00522	0.00502	0.00542	0.005	0.407	0.005	0.011	0.005	0.005	0.006	0	0.00000	0.00089	0.00010	4.84399	0.27221	25.64516	0.53818
Nitrate (mg/l as N)	79	2.18684	1.76737	2.60630	1.8	172.76	0.05	9	0.6	3.3	8.95	2.7	3.50701	1.87270	0.21070	0.98484	0.27054	0.95681	0.53495
Total Phosphorus (mg/l as P)	79	0.13013	0.10072	0.15954	0.08	10.28	0.015	0.67	0.06	0.13	0.655	0.07	0.01724	0.13130	0.01477	2.43668	0.27054	5.97074	0.53495
Total Solids (mg/l)	79	423.41772	405.66605	441.16939	407	33450	298	731	370	449	433	79	6281.01558	79.25286	8.91664	1.72642	0.27054	3.99950	0.53495
Suspended Solids (mg/l)	78	36.23077	19.73906	52.72248	13.5	2826	2	538	7	29	536	22	5350.23177	73.14528	8.28207	4.96916	0.27221	30.06608	0.53818
Dissolved Solids (mg/l)	77	373.01299	354.92668	391.09930	364	28722	190	698	334	408	508	74	6349.72351	79.68515	9.08097	1.28724	0.27391	4.13238	0.54146
Sulfate (mg/l)	78	48.58974	44.58617	52.59332	46	3790	15	130	40	53	115	13	315.31002	17.75697	2.01058	2.00742	0.27221	6.61930	0.53818
TKN (mg/l as N)	23	0.74348	0.56718	0.91977	0.6	17.1	0.3	1.6	0.4	1	1.3	0.6	0.16621	0.40768	0.08501	0.92954	0.48134	-0.35897	0.93476
E. coli (CFU/100ml)	77	1141.36364	537.22137	1745.50591	200	87885	5	15000	80	700	14995	620	7084892.52392	2661.74614	303.33412	3.58849	0.27391	13.63980	0.54146
TOC (mg/l)	22	4.34545	3.31863	5.37228	4.1	95.6	2.1	13.7	3	4.6	11.6	1.6	5.36355	2.31593	0.49376	3.35026	0.49096	13.53989	0.95278
Hardness (mg/l)	79	291.69620	278.47764	304.91476	302	23044	142	412	254	333	270	79	3482.72704	59.01463	6.63967	-0.26306	0.27054	-0.02005	0.53495
Chloride (mg/l)	23	26.00000	22.66820	29.33180	26	598	13	42	20	31	29	11	59.36364	7.70478	1.60656	0.32457	0.48134	-0.55184	0.93476
Dissolved Oxygen (mg/l)	61	9.72934	9.21033	10.24836	9.62	593.49	2	13.7	8.43	11.36	11.7	2.93	4.10672	2.02650	0.25947	-0.62237	0.30627	2.18328	0.60384
pH	62	7.90613	7.83521	7.97705	7.945	490.18	7.04	8.51	7.81	8.11	1.47	0.3	0.07798	0.27925	0.03546	-0.96533	0.30390	1.39744	0.59929
Copper (ug/l)	80	6.42375	1.48017	11.36733	2	513.9	2	200	2	5	198	3	493.48183	22.21445	2.48365	8.59689	0.26891	75.63991	0.53179
Iron (ug/l)	23	1100.00000	466.13070	1733.86930	330	25300	110	5200	190	1900	5090	1710	2148636.36364	1465.82276	305.64517	1.63146	0.48134	1.65526	0.93476
Zinc (ug/l)	26	7.19615	4.44257	9.94973	4.75	187.1	2.25	26	2.25	10	23.75	7.75	46.47598	6.81733	1.33699	1.41681	0.45556	1.05648	0.88651

Station: WR-348

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Standard Dev.	Standard Error	Skewness	Std.Err.	Kurtosis	Std.Kurtosis
Alkalinity (mg/l)	78	239.42308	229.39206	249.45410	242	18675	84	329	219	267	245	48	1979.39011	44.49034	5.03754	-0.58756	0.27221	1.14777	0.53818
Ammonia (mg/l as N)	78	0.07436	0.06194	0.08678	0.05	5.8	0.05	0.3	0.05	0.05	0.25	0	0.00304	0.05509	0.00624	2.27505	0.27221	4.28456	0.53818
BOD (mg/l)	39	1.24872	0.94282	1.55461	1.1	48.7	0.5	4.8	0.5	1.8	4.3	1.3	0.89046	0.94364	0.15110	1.78738	0.37822	4.24140	0.74100
COD (mg/l)	78	14.69103	13.36633	16.01572	13.95	1145.9	2.5	36	10	19	33.5	9	34.52005	5.87538	0.66526	0.85861	0.27221	1.18737	0.53818
Cyanide (mg/l)	77	0.00519	0.00499	0.00540	0.005	0.4	0.005	0.011	0.005	0.005	0.006	0	0.00000	0.00092	0.00010	5.46127	0.27391	30.53721	0.54146
Nitrate (mg/l as N)	78	2.98077	2.39104	3.57050	2.8	232.5	0.05	11	0.4	4.6	10.95	4.2	6.84151	2.61563	0.29616	0.70935	0.27221	-0.12008	0.53818
Total Phosphorus (mg/l as P)	78	0.11032	0.08243	0.13821	0.08	8.605	0.015	0.92	0.04	0.13	0.905	0.09	0.01530	0.12369	0.01401	4.30269	0.27221	24.48694	0.53818
Total Solids (mg/l)	78	416.52564	404.41060	428.64068	416	32489	257	611	386	448	354	62	2887.29154	53.73352	6.08412	0.35592	0.27221	1.90313	0.53818
Suspended Solids (mg/l)	78	22.21795	16.93186	27.50403	12	1733	2	117	6	29	115	23	549.67915	23.44524	2.65465	1.79606	0.27221	3.32535	0.53818
Dissolved Solids (mg/l)	77	379.23377	366.17345	392.29408	383	29201	180	575	350	404	395	54	331.02358	57.54149	6.55746	0.06507	0.27391	2.47269	0.54146
Sulfate (mg/l)	22	35.27273	31.09737	39.44809	35	776	14	53	29	38	39	9	88.68398	9.41722	2.00776	0.20621	0.49096	0.48217	0.95278
TKN (mg/l as N)	78	0.65256	0.59245	0.71268	0.6	50.9	0.2	1.4	0.4	0.8	1.2	0.4	0.07110	0.26664	0.03019	0.81023	0.27221	-0.02627	0.53818
E. coli (CFU/100ml)	76	1133.42105	566.42752	1700.41459	390	86140	5	17600	150	995	17595	845	6156680.14035	2481.26583	284.62071	4.96925	0.27564	28.71268	0.54480
TOC (mg/l)	22	4.92273	3.55390	6.29156	4	108.3	1.9	15.8	3	6.5	13.9	3.5	9.53136	3.08729	0.65821	2.31858	0.49096	6.71158	0.95278
Hardness (mg/l)	78	304.89744	293.56183	316.23304	309.5	23782	110	400	274	335	290	61	2527.72960	50.27653	5.69270	-0.80089	0.27221	1.86454	0.53818
Chloride (mg/l)	22	26.63636	23.34239	29.93034	25.5	586	12	44	23	30	32	7	55.19481	7.42932	1.58394	0.49634	0.49096	0.46350	0.95278
Dissolved Oxygen (mg/l)	60	10.03417	9.53273	10.53560	9.95	602.05	5.47	15.44	8.88	10.94	9.97	2.06	3.76785	1.94109	0.25059	0.50754	0.30869	0.90125	0.60849
pH	61	7.89951	7.79483	8.00419	7.98	481.87	6.3	8.61	7.79	8.15	2.31	0.36	0.16705	0.40872	0.05233	-1.35260	0.30627	2.81786	0.60384
Copper (ug/l)	78	3.41538	2.93205	3.89872	2	266.4	2	11	2	4	9	2	4.59560	2.14374	0.24273	1.65997	0.27221	2.40741	0.53818
Iron (ug/l)	78	865.80769	666.41610	1065.19928	565	67533	93	4100	270	1100	4007	830	782086.46903	884.35653	100.13366	1.80902	0.27221	2.97527	0.53818
Zinc (ug/l)	78	9.25385	8.08686	10.42083	10	721.8	2.25	30	5	10	27.75	5	26.78999	5.17590	0.58606	1.28096	0.27221	2.90303	0.53818

Appendix E

Seasonal Kendall Summary

The following tables are the summary of the Seasonal Kendall statistical tests for 20 chemical parameters. The entries in the cells indicate the results of the test and are abbreviated as follows.

NC: No Statistical Change, Significance <80% or Reported Slope = 0.00000

SD: Statistically Decreasing, Significance 95% or Greater with a Negative Slope

PD: Potentially Decreasing, Significance 80% to 94% with a Negative Slope

PI: Potentially Increasing, Significance 80% to 94% with a Positive Slope

SI: Statistically Increasing, Significance 95% or Greater with a Positive Slope

ID: Insufficient Data for Analysis

Station	Alkalinity	BOD	COD	Chloride	Copper	Cyanide	Oxygen	<i>E. coli</i>	Hardness	Iron
BD-1	NC	SD	PD	SI	SD	NC	SI	NC	NC	PD
BD-2E	NC	SD	PD	SI	ID	NC	SI	NC	NC	PD
BD-3W	NC	NC	SD	NC	ID	NC	SI	PD	NC	ID
BL-0.7	NC	SD	ID	ID	ID	ID	PI	NC	NC	ID
BL-64	NC	PD	PD	ID	ID	NC	PI	NC	NC	ID
BLW-57	NC	NC	ID	ID	ID	ID	NC	NC	NC	ID
EC-1	PD	SD	SD	ID	SD	NC	NC	NC	NC	ID
EC-7	NC	SD	NC	ID	ID	NC	SD	PI	NC	ID
EC-21	PD	SD	NC	ID	ID	NC	NC	NC	NC	ID
EEL-1	NC	PD	NC	ID	ID	ID	NC	NC	NC	ID
ELL-7	NC	PD	SD	ID	ID	ID	NC	NC	NC	ID
ELL-41	SD	NC	NC	NC	NC	NC	NC	NC	SD	ID
ER-0.3	PD	PD	PD	ID	NC	NC	PI	SD	NC	ID
EW-1	NC	SD	NC	ID	ID	NC	SI	NC	PI	ID
EW-79	NC	NC	NC	ID	NC	NC	NC	NC	NC	PD
EW-94	NC	PD	NC	ID	ID	ID	NC	NC	NC	ID
EW-168	NC	SD	SD	ID	PD	NC	NC	NC	NC	ID
EW-239	NC	SD	PD	ID	ID	NC	NC	NC	NC	ID
FC-0.6	SD	PD	NC	ID	SD	PD	NC	NC	SD	ID
FC-7	PD	NC	NC	ID	ID	NC	PI	NC	PD	ID
GCR-34	SD	SD	SD	PI	NC	SD	SI	PD	SI	NC

Station	Alkalinity	BOD	COD	Chloride	Copper	Cyanide	Oxygen	<i>E. coli</i>	Hardness	Iron
GCR-37	NC	SD	SD	NC	NC	SD	SI	SD	NC	SD
GCR-42	SD	PD	SD	ID	NC	NC	PI	SD	SD	SD
IHC-0	PI	NC	NC	SI	NC	NC	SI	NC	SI	PI
IHC-2	PI	NC	NC	SI	NC	SD	SI	PD	SI	NC
IHC-3S	PD	SD	SD	SI	ID	SD	SI	SD	NC	SD
IHC-3W	NC	SD	SD	SI	ID	SD	SI	SD	SI	SD
IWC-9	NC	SD	SD	NC	SD	NC	NC	NC	PD	SD
KR-68	NC	NC	NC	NC	NC	NC	SI	NC	SD	SD
KR-118	NC	NC	NC	ID	NC	NC	SI	NC	PD	SD
LCR-13	NC	SD	SD	ID	ID	SD	SI	SD	NC	ID
LCR-39	NC	SD	ID	ID	ID	ID	SI	NC	NC	ID
LM-EC	SD	NC	SD	NC	SD	NC	ID	NC	NC	ID
LM-G	SD	NC	PD	SI	SI	ID	ID	NC	NC	ID
LM-H	SD	NC	SD	SI	SI	NC	ID	NC	PD	ID
LM-M	SD	NC	PD	SI	NC	NC	ID	NC	NC	PD
LM-W	SD	NC	SD	SI	SI	NC	ID	NC	NC	SD
M-114	NC	NC	SD	ID	SD	NC	NC	SD	NC	ID
M-129	NC	NC	SD	ID	SD	NC	NC	SD	NC	NC
MC-18	SI	PD	SD	ID	ID	ID	SI	NC	PI	ID
MC-35	NC	NC	SD	ID	ID	ID	PI	NC	PI	ID
MS-1	NC	SD	ID	SI	ID	ID	NC	NC	NC	ID
MS-28	SD	NC	NC	ID	NC	NC	NC	NC	NC	ID
MS-36	SD	NC	NC	ID	NC	ID	NC	NC	SD	ID
MS-99	PD	NC	SD	ID	ID	NC	PI	NC	NC	ID
MU-20	NC	SD	ID	ID	ID	ID	NC	NC	NC	ID
P-35	NC	SD	NC	ID	ID	NC	NC	NC	PD	ID
P-76	NC	PD	PD	ID	SD	NC	PI	NC	NC	ID
PC-21	NC	NC	PD	ID	ID	NC	NC	NC	NC	ID
S-0	NC	PI	NC	ID	ID	ID	NC	PI	PD	NC
S-25	PD	NC	PD	ID	ID	ID	NC	NC	PD	ID
S-71	NC	NC	NC	ID	ID	NC	NC	PD	SI	ID
SC-25	NC	SD	SD	ID	NC	NC	NC	SD	NC	ID
SGR-1	NC	SD	NC	ID	ID	ID	NC	NC	NC	ID
SJR-51	PI	NC	NC	SI	NC	NC	NC	NC	SI	NC

Station	Alkalinity	BOD	COD	Chloride	Copper	Cyanide	Oxygen	<i>E. coli</i>	Hardness	Iron
SJR-64	NC	SD	PI	ID	ID	NC	NC	NC	NC	ID
SJR-87	SI	NC	PD	ID	NC	NC	PD	PI	SI	NC
SLC-1	SD	SD	PD	ID	ID	NC	SI	NC	PD	ID
SLC-17	PD	NC	NC	ID	NC	ID	SI	NC	NC	ID
SLT-12	SI	NC	ID	ID	ID	ID	NC	NC	SI	ID
STJ-0.5	NC	NC	NC	ID	NC	NC	PD	NC	NC	NC
STM-0.2	NC	NC	NC	ID	SD	NC	NC	SD	NC	NC
STM-11	NC	NC	PD	ID	ID	ID	NC	NC	NC	ID
STM-37	NC	PD	PD	ID	ID	NC	SI	NC	NC	ID
TC-0.5	SI	ID	NC	SI	NC	NC	SI	ID	SI	NC
TC-1	ID	SD	NC	ID	PD	NC	SI	PD	NC	ID
TC-2	NC	NC	NC	ID	ID	NC	PI	NC	NC	ID
TR-9	NC	PD	ID	ID	ID	ID	NC	NC	NC	ID
TR-107	NC	PD	NC	ID	NC	NC	SI	SD	NC	ID
V-0.8	NC	NC	PD	ID	SD	NC	NC	NC	PD	ID
WB-130	NC	NC	PD	ID	ID	NC	NC	NC	NC	SD
WB-183	NC	NC	NC	ID	SD	NC	PI	PD	NC	SD
WB-230	NC	NC	NC	ID	ID	NC	PI	PD	NC	ID
WB-240	NC	NC	PD	ID	ID	ID	SI	NC	NC	ID
WB-256	NC	NC	NC	ID	ID	ID	NC	NC	NC	ID
WB-303	NC	SD	ID	ID	SD	NC	NC	NC	NC	PD
WB-316	NC	PD	PD	ID	SD	NC	NC	PI	NC	NC
WB-347	NC	NC	NC	ID	ID	NC	PI	NC	PD	ID
WB-370	PI	NC	ID	ID	SD	ID	PI	PD	NC	ID
WB-402	PD	NC	NC	ID	PD	NC	NC	NC	PD	ID
WB-409	NC	NC	NC	ID	SD	ID	NC	NC	NC	ID
WB-420	NC	NC	SD	ID	SD	ID	NC	NC	PD	ID
WB-452	NC	NC	NC	ID	SD	NC	SI	NC	NC	SD
WC-3	PI	PD	SD	ID	NC	NC	NC	NC	NC	ID
WC-60	NC	SD	SD	ID	NC	NC	NC	NC	SD	ID
WC-66	SD	NC	NC	ID	ID	NC	NC	SI	SD	ID
WCS-34	SD	NC	NC	ID	NC	NC	PI	NC	PD	ID
WHE-27	NC	NC	PD	ID	ID	NC	NC	NC	NC	ID
WHW-22	SI	PD	ID	ID	ID	ID	NC	NC	PI	ID

Station	Alkalinity	BOD	COD	Chloride	Copper	Cyanide	Oxygen	<i>E. coli</i>	Hardness	Iron
WL-SL	NC	PD	NC	ID	ID	NC	PI	NC	NC	ID
WR-19	NC	NC	NC	ID	ID	ID	NC	NC	NC	ID
WR-46	NC	PD	NC	ID	SD	NC	PI	NC	NC	SD
WR-81	NC	NC	PD	ID	ID	ID	PI	NC	NC	ID
WR-162	NC	NC	NC	ID	ID	NC	NC	PD	PD	ID
WR-192	NC	NC	PD	ID	SD	NC	PI	NC	PD	ID
WR-210	NC	PD	NC	ID	SD	NC	NC	NC	PD	NC
WR-248	PD	SD	SD	ID	ID	ID	NC	NC	PD	ID
WR-279	PD	SD	NC	ID	SD	NC	SI	NC	NC	ID
WR-293	NC	SD	SD	ID	SD	NC	NC	NC	NC	ID
WR-309	NC	NC	SD	ID	SD	NC	NC	NC	NC	ID
WR-319	PD	NC	NC	ID	NC	NC	NC	NC	NC	ID
WR-348	NC	NC	NC	ID	ID	NC	NC	NC	NC	SD

Station	Ammonia	Nitrite + Nitrate	TKN	pH	Total Phosphorus	Total Residue	Total Residue, Filterable	Total Residue, Nonfiltrable	Sulfate	Zinc
BD-1	SD	NC	SD	SI	PD	NC	NC	NC	ID	NC
BD-2E	NC	NC	PI	PI	PD	NC	NC	ID	ID	ID
BD-3W	SD	NC	SD	PI	SD	NC	ID	NC	ID	ID
BL-0.7	NC	SD	ID	NC	PD	PI	ID	NC	ID	ID
BL-64	SD	NC	ID	PI	NC	NC	ID	NC	ID	ID
BLW-57	NC	NC	ID	NC	PD	NC	ID	PD	ID	ID
EC-1	SD	PI	SD	PI	PD	NC	ID	NC	ID	NC
EC-7	NC	SD	NC	NC	NC	SI	ID	NC	ID	NC
EC-21	NC	NC	ID	NC	SD	NC	ID	NC	ID	ID
EEL-1	NC	NC	ID	SI	NC	NC	ID	NC	ID	ID
ELL-7	NC	SD	ID	PI	SD	SD	ID	SD	ID	ID
ELL-41	NC	NC	ID	SI	NC	NC	ID	NC	ID	ID
ER-0.3	NC	NC	PD	PI	PD	PI	ID	NC	ID	ID
EW-1	NC	NC	ID	SI	SD	PI	ID	SD	ID	ID
EW-79	NC	SD	NC	PI	NC	PD	ID	NC	ID	NC
EW-94	NC	SD	ID	PI	PD	PD	ID	NC	NC	ID
EW-168	NC	SD	ID	NC	SD	NC	NC	NC	PD	ID
EW-239	NC	SD	ID	PI	SI	NC	ID	NC	ID	ID

Station	Ammonia	Nitrite + Nitrate	TKN	pH	Total Phosphorus	Total Residue	Total Residue, Filtrable	Total Residue, Nonfiltrable	Sulfate	Zinc
FC-0.6	NC	SD	NC	SI	PD	PD	ID	NC	ID	ID
FC-7	NC	SD	ID	SI	NC	NC	NC	NC	PD	ID
GCR-34	SD	SI	PD	SI	SD	SI	ID	NC	ID	NC
GCR-37	SD	NC	SD	SI	SD	NC	NC	NC	ID	SD
GCR-42	SD	NC	ID	SI	SD	PD	ID	PD	ID	SD
IHC-0	NC	SI	PI	NC	NC	SI	SI	NC	ID	NC
IHC-2	SD	SI	SD	SI	NC	SI	SI	NC	ID	SD
IHC-3S	SD	NC	SD	SI	SD	PI	ID	NC	ID	ID
IHC-3W	SD	SI	SD	SI	NC	SI	ID	NC	ID	ID
IWC-9	NC	NC	PD	NC	NC	NC	PI	SD	SI	NC
KR-68	NC	NC	PD	SI	SD	SD	ID	PD	ID	SD
KR-118	NC	NC	NC	SI	NC	PD	ID	NC	ID	NC
LCR-13	SD	PI	ID	SI	PD	NC	ID	NC	ID	ID
LCR-39	NC	SI	ID	SI	SD	NC	ID	PD	ID	ID
LM-EC	NC	NC	ID	PI	NC	NC	NC	NC	NC	NC
LM-G	NC	NC	ID	NC	NC	NC	NC	NC	SI	NC
LM-H	NC	NC	ID	NC	NC	PD	PI	NC	SI	SD
LM-M	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
LM-W	NC	NC	NC	NC	NC	NC	NC	NC	NC	SD
M-114	NC	NC	NC	PI	SD	NC	ID	PD	ID	NC
M-129	NC	NC	NC	SI	SD	NC	ID	NC	ID	ID
MC-18	NC	NC	ID	SI	NC	SD	PI	SD	ID	ID
MC-35	NC	NC	ID	PI	NC	NC	SI	NC	ID	ID
MS-1	NC	NC	ID	NC	NC	NC	ID	NC	ID	ID
MS-28	NC	NC	ID	NC	PD	PI	ID	PD	ID	ID
MS-36	NC	NC	NC	NC	NC	SD	ID	PD	ID	ID
MS-99	NC	NC	ID	PI	SD	PD	ID	PD	ID	ID
MU-20	NC	NC	ID	SI	NC	PD	ID	NC	ID	ID
P-35	PD	NC	ID	SI	PD	PD	ID	NC	ID	ID
P-76	NC	NC	PI	SI	NC	NC	ID	NC	ID	SD
PC-21	NC	PI	ID	NC	NC	NC	ID	NC	ID	ID
S-0	NC	PD	NC	NC	PI	PD	ID	NC	ID	ID
S-25	PD	NC	PD	NC	NC	NC	ID	NC	NC	ID

Station	Ammonia	Nitrite + Nitrate	TKN	pH	Total Phosphorus	Total Residue	Total Residue, Filtrable	Total Residue, Nonfiltrable	Sulfate	Zinc
S-71	NC	SD	ID	SI	NC	PI	ID	PD	ID	ID
SC-25	NC	NC	ID	NC	PD	SD	ID	NC	ID	ID
SGR-1	NC	PD	ID	NC	NC	NC	ID	NC	ID	ID
SJR-51	NC	SI	SD	NC	SI	SI	ID	ID	ID	NC
SJR-64	NC	PI	NC	PI	PD	PI	ID	NC	ID	NC
SJR-87	NC	SI	SD	NC	NC	SI	ID	NC	ID	NC
SLC-1	NC	NC	ID	NC	SD	PD	NC	PD	ID	ID
SLC-17	NC	NC	ID	PI	NC	NC	ID	NC	ID	ID
SLT-12	NC	NC	ID	SI	SD	PI	NC	SI	NC	ID
STJ-0.5	NC	NC	NC	NC	NC	PI	NC	NC	PI	NC
STM-0.2	NC	PD	NC	PI	SD	PD	ID	NC	ID	NC
STM-11	NC	PD	ID	PI	SD	PD	ID	PD	ID	ID
STM-37	NC	PD	ID	SI	SD	NC	ID	NC	ID	ID
TC-0.5	SD	SI	SD	SI	SD	SI	ID	NC	ID	SD
TC-1	SD	SI	ID	SI	SD	NC	ID	PD	NC	NC
TC-2	NC	NC	ID	PI	SD	PD	ID	NC	ID	ID
TR-9	NC	PD	ID	NC	SD	SD	ID	SD	ID	ID
TR-107	NC	NC	ID	PI	NC	PI	ID	NC	ID	ID
V-0.8	NC	NC	ID	PI	SD	SD	NC	NC	ID	NC
WB-130	NC	NC	ID	SI	PD	NC	NC	NC	ID	ID
WB-183	NC	NC	NC	SI	PD	NC	NC	NC	ID	NC
WB-230	NC	NC	ID	PI	SD	NC	ID	NC	ID	ID
WB-240	NC	NC	ID	PI	PD	NC	ID	NC	ID	ID
WB-256	NC	NC	ID	NC	NC	NC	ID	NC	ID	ID
WB-303	SD	NC	PD	NC	PD	SD	ID	NC	ID	NC
WB-316	NC	NC	PD	SI	SD	NC	ID	NC	ID	NC
WB-347	NC	SD	ID	PI	SD	PD	ID	PD	ID	ID
WB-370	NC	PD	ID	SI	NC	SD	ID	PD	ID	ID
WB-402	NC	NC	ID	PI	PD	NC	ID	NC	ID	ID
WB-409	NC	NC	ID	SI	NC	PD	ID	NC	ID	ID
WB-420	NC	NC	ID	SI	SD	PD	ID	PD	ID	ID
WB-452	NC	SD	ID	SI	SD	NC	ID	NC	ID	SD
WC-3	NC	NC	ID	PI	NC	NC	ID	ND	ID	ID

Station	Ammonia	Nitrite + Nitrate	TKN	pH	Total Phosphorus	Total Residue	Total Residue, Filtrable	Total Residue, Nonfiltrable	Sulfate	Zinc
WC-60	SD	NC	ID	PI	PI	PD	ID	PI	ID	ID
WC-66	NC	NC	ID	SI	NC	PD	PD	NC	ID	ID
WCS-34	NC	NC	ID	NC	NC	PD	ID	NC	ID	ID
WHE-27	NC	NC	ID	NC	NC	NC	ID	NC	ID	ID
WHW-22	NC	NC	ID	PI	NC	NC	ID	NC	ID	ID
WL-SL	NC	NC	ID	NC	NC	NC	ID	SD	ID	ID
WR-19	NC	NC	ID	NC	NC	NC	ID	NC	ID	ID
WR-46	NC	SD	SD	SI	PD	NC	ID	PD	ID	NC
WR-81	NC	SD	ID	SI	SD	SD	ID	PD	ID	ID
WR-162	NC	SD	ID	NC	SD	PD	ID	PD	ID	ID
WR-192	NC	SD	ID	SI	SD	NC	ID	NC	ID	SD
WR-210	NC	SD	NC	SI	SD	NC	ID	NC	ID	SD
WR-248	NC	NC	ID	NC	PD	NC	ID	SD	ID	ID
WR-279	SD	NC	ID	SI	SD	PI	ID	NC	ID	ID
WR-293	NC	SD	ID	NC	NC	SI	SI	SD	SI	NC
WR-309	NC	SD	PD	PI	NC	NC	ID	NC	ID	NC
WR-319	NC	NC	ID	NC	NC	PD	NC	NC	PD	ID
WR-348	NC	NC	NC	PI	SD	NC	NC	NC	ID	NC

Appendix F

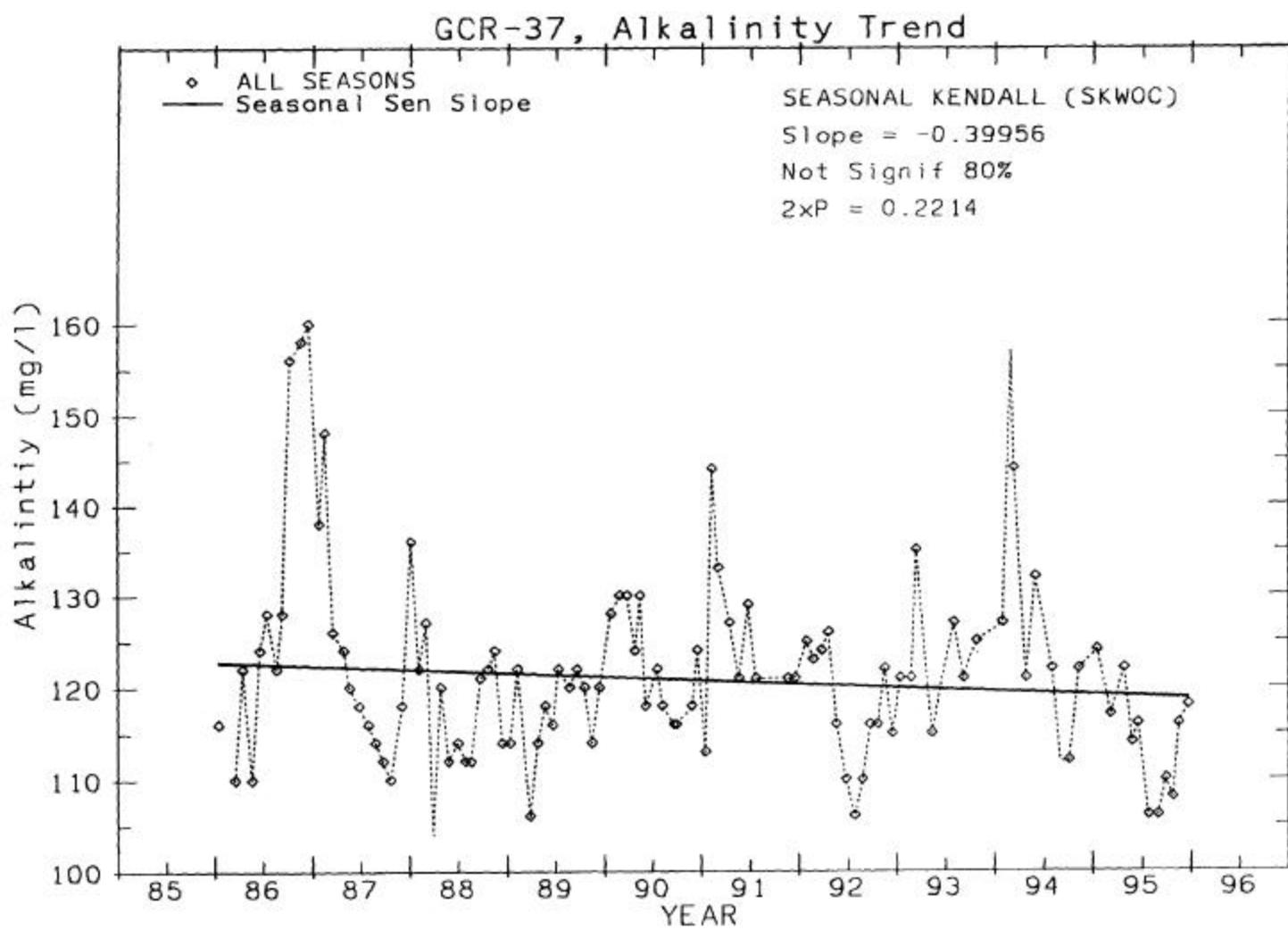
Seasonal Kendall Tests

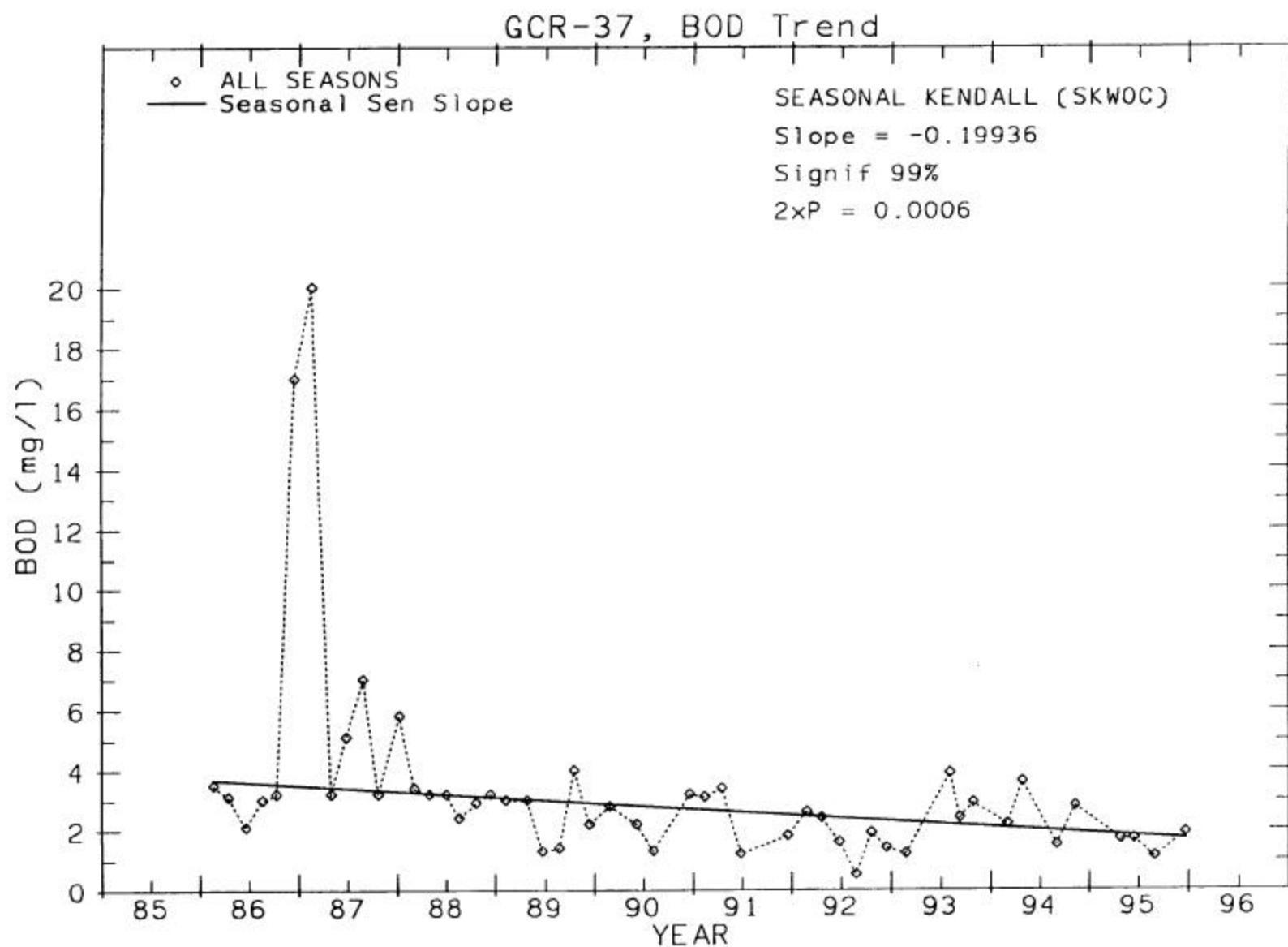
Grand Calumet River at East Chicago

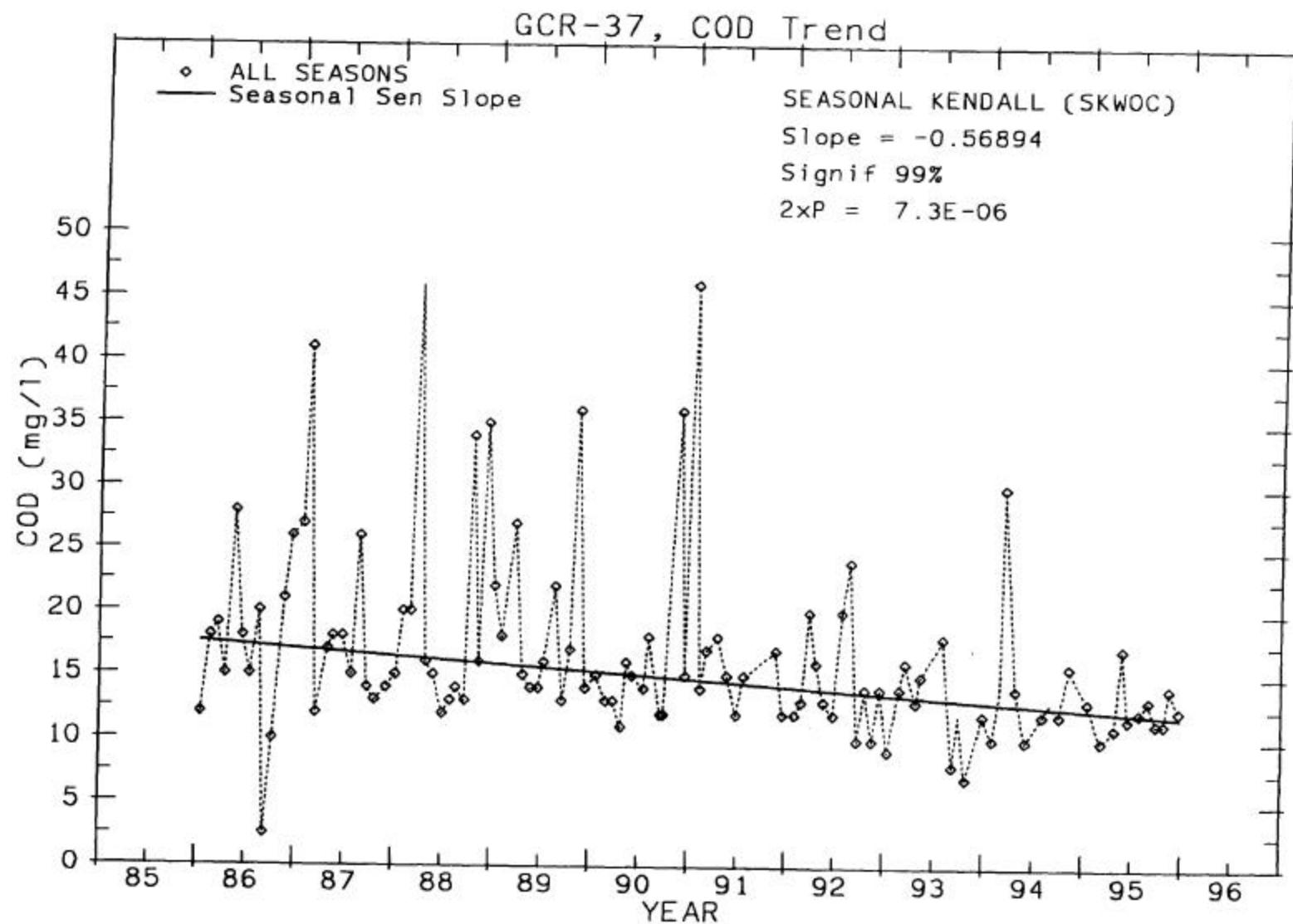
(GCR-37)

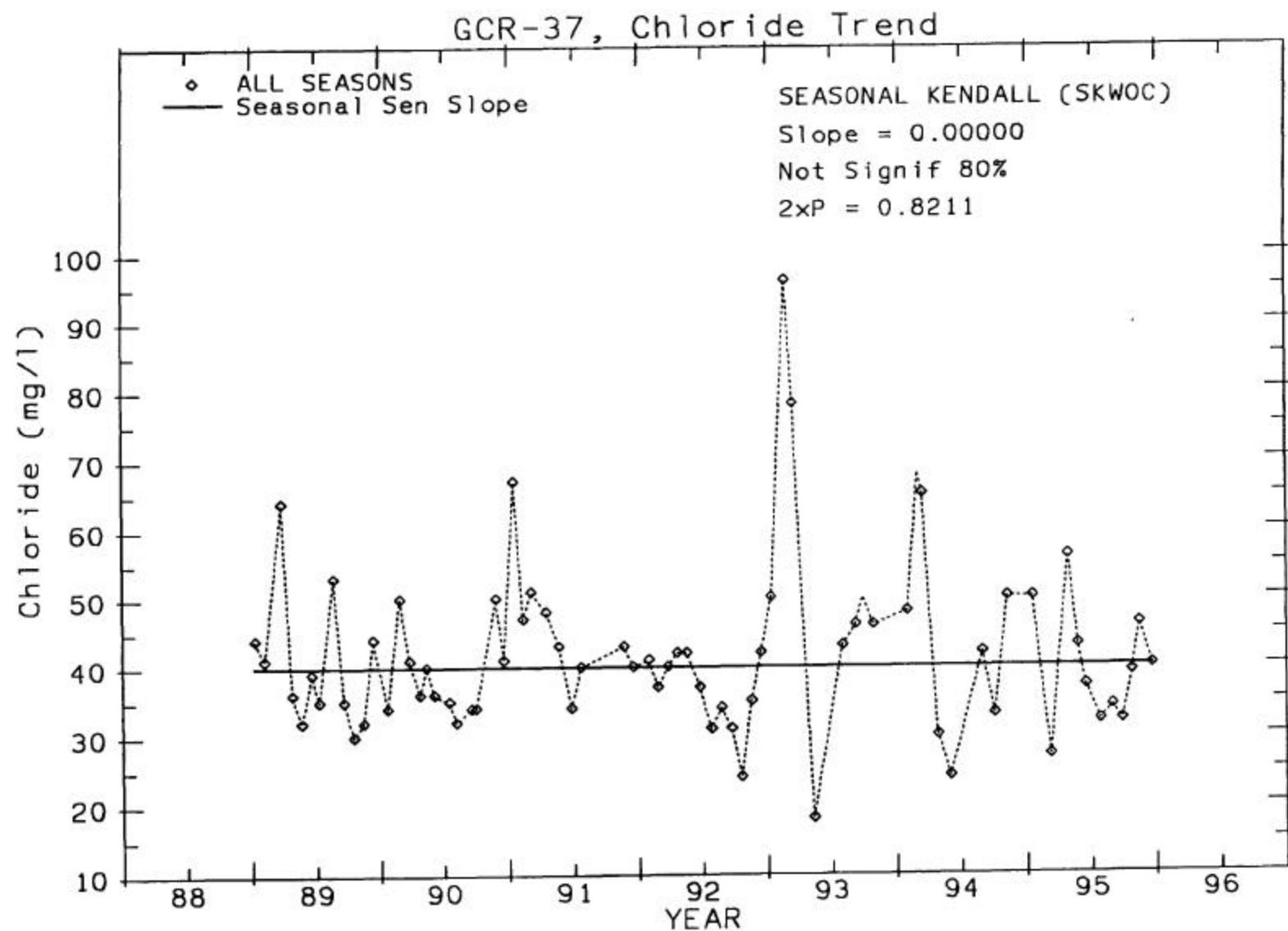
Included in this appendix are the graphs produced through the Seasonal Kendall Analysis for the Grand Calumet River at East Chicago. Data was plotted with time as the independent variable and the parameter as the dependent variable. The two important statistics are listed in the upper right corner of the plot. These were the slope, which is estimated by the computer program to show the rate of change, and the significance, the certainty that a temporal change exists. It was previously defined that a significance of 95% or greater indicated a statistical change. A significance greater than or equal to 80% but less than 95% indicated a potential change. If the significance was less than 80% the slope has no statistical meaning. Even if there is no statistical change in the data, the plots still show seasonal fluctuations and a general range of where the observations were recorded.

For this station, GCR-37, statistical decreases were seen for BOD, COD, cyanide, *E. coli*, total iron, ammonia, TKN, total phosphorus, and zinc. Statistical increases were observed for both dissolved oxygen and pH. Several of the parameters had a significance below 80% and were deduced to have no statistical change. These were alkalinity, chloride, copper, hardness, nitrate + nitrite, total residue (total solids), and total residue-nonfiltrable (suspended solids).

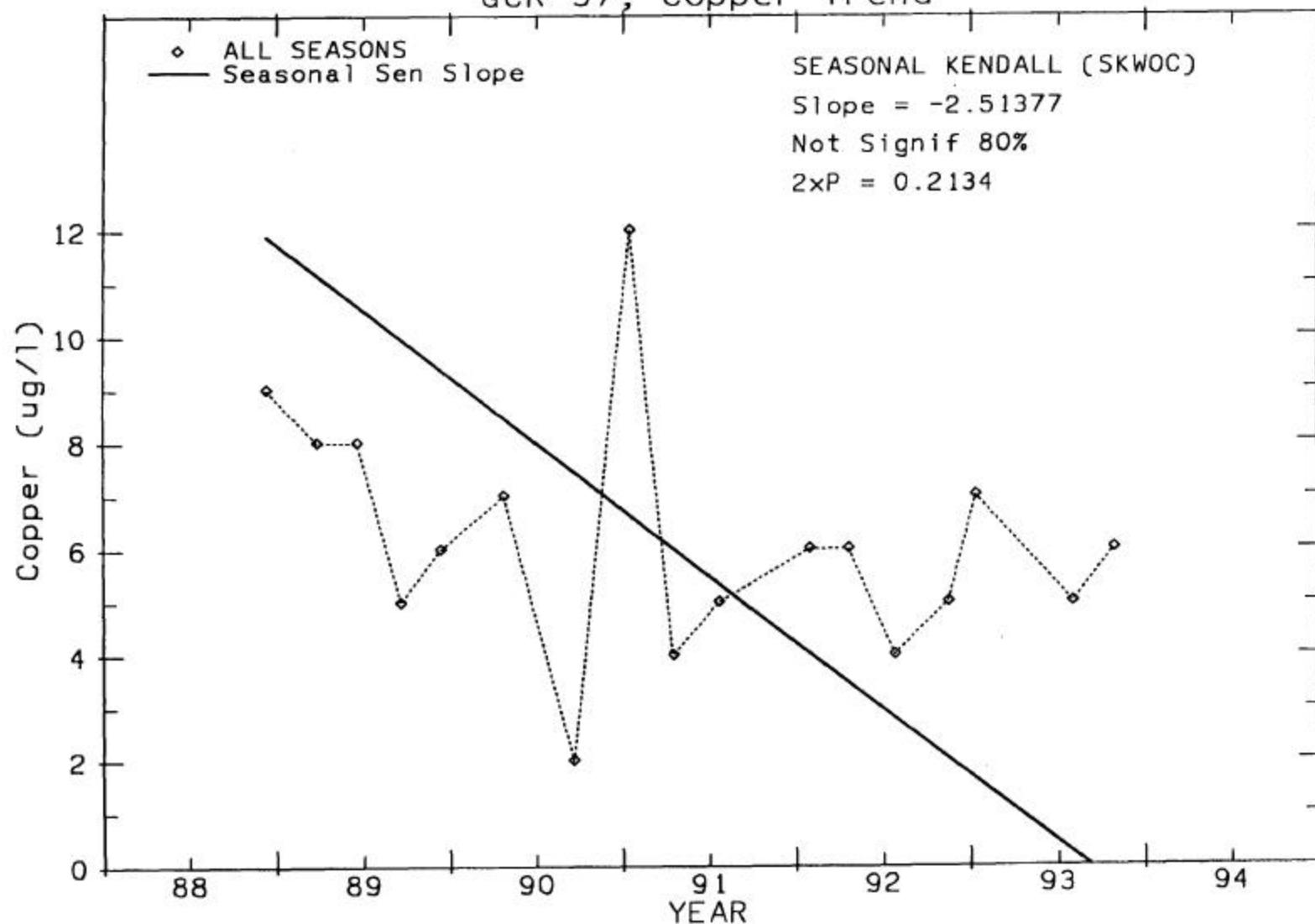




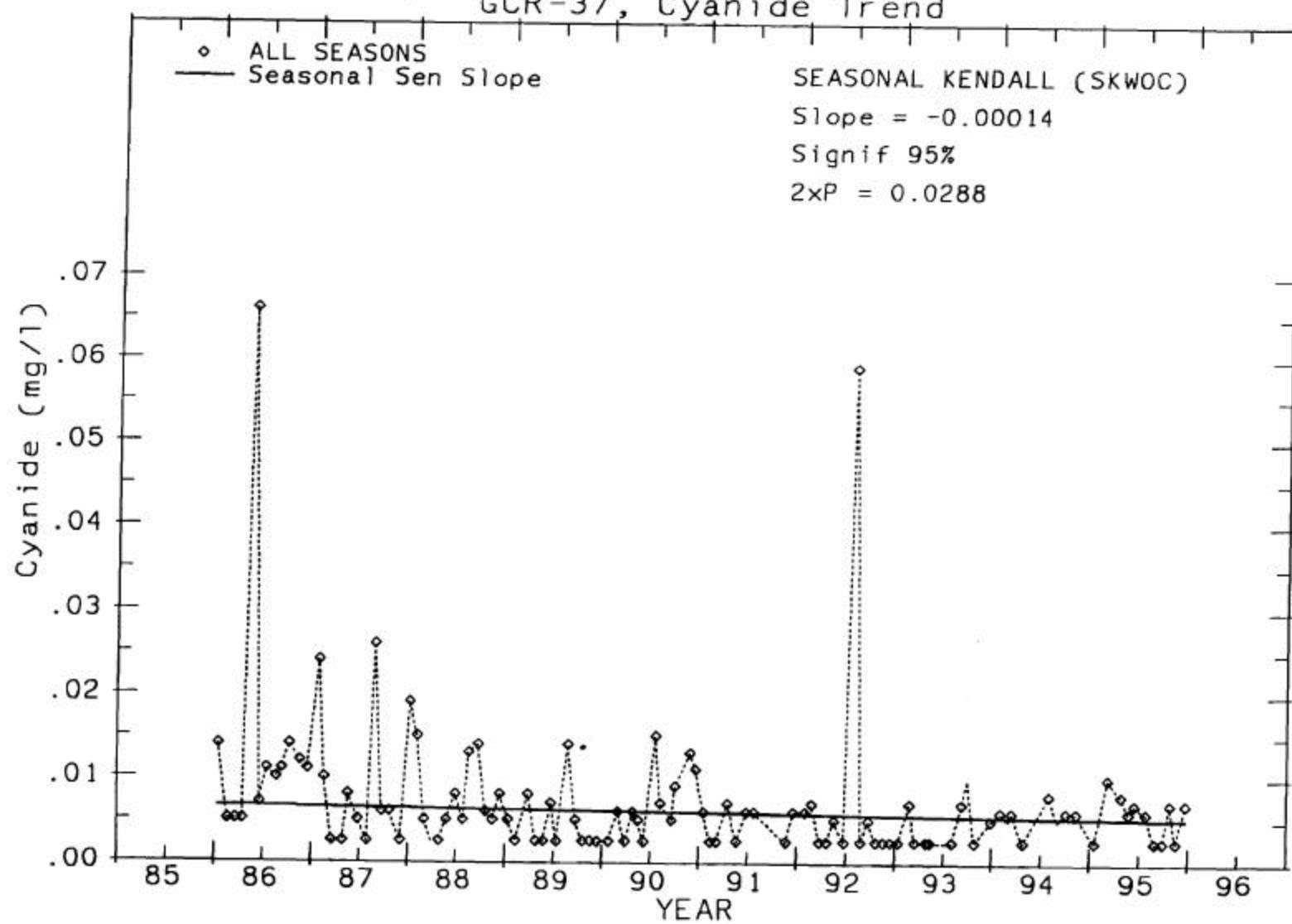


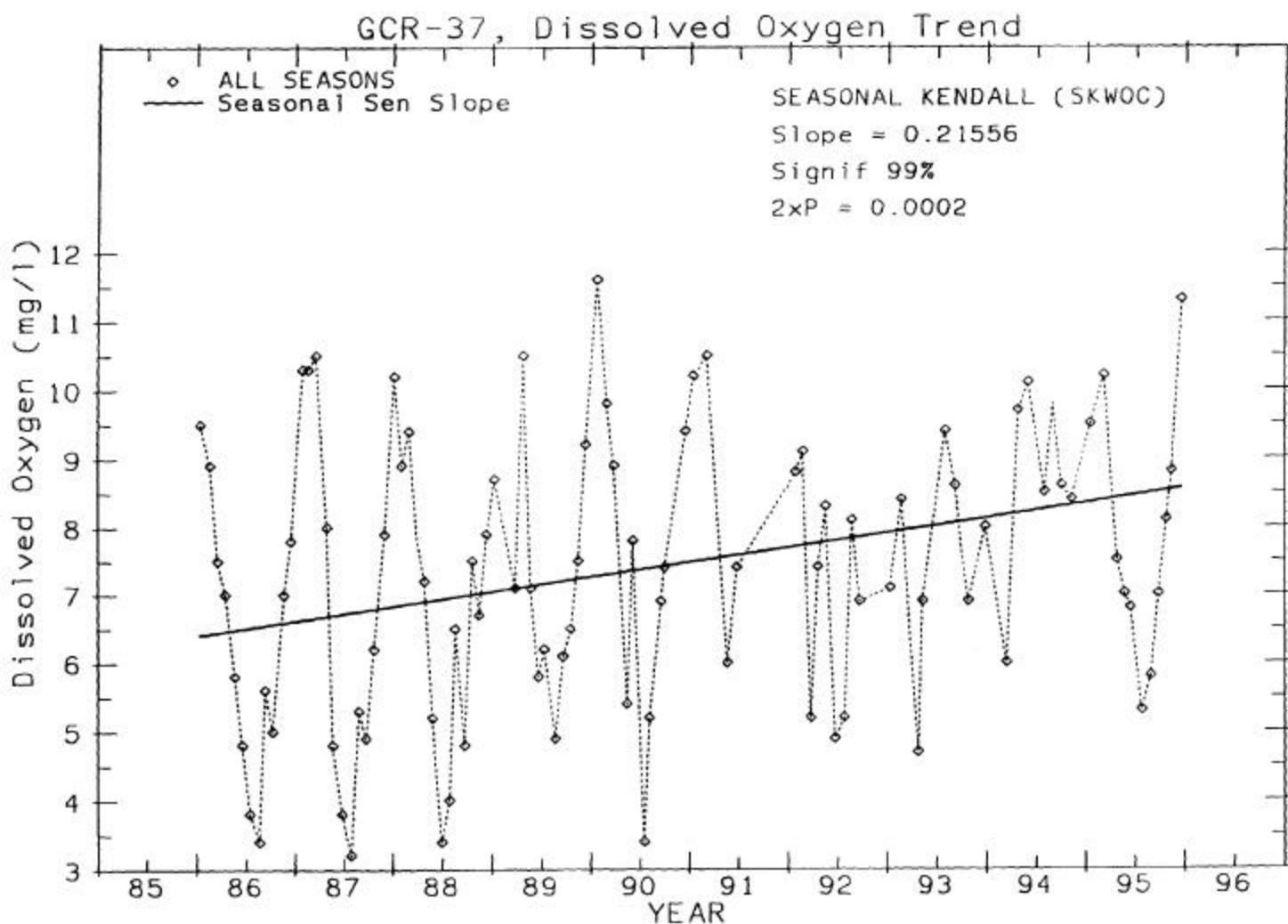


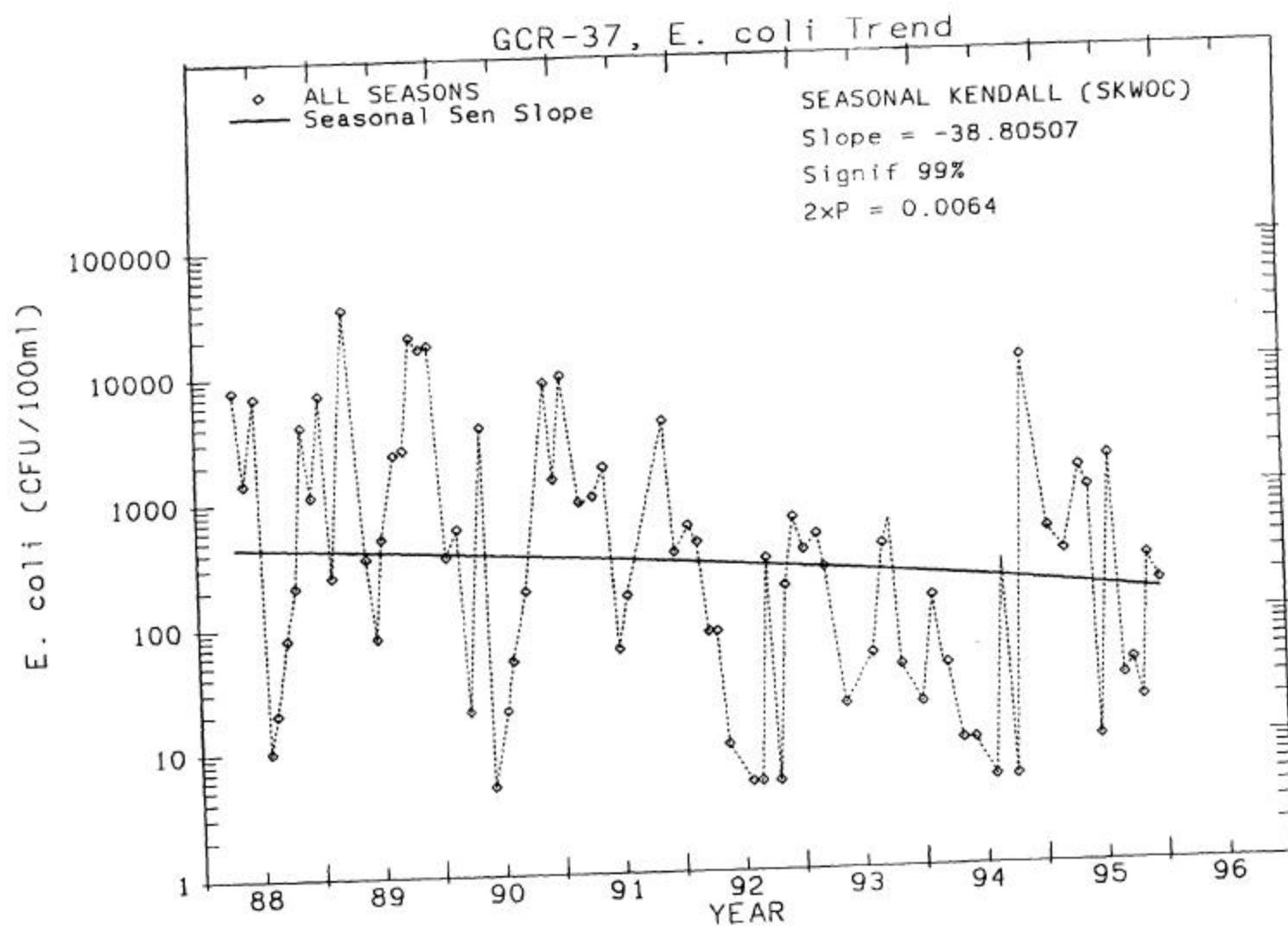
GCR-37, Copper Trend

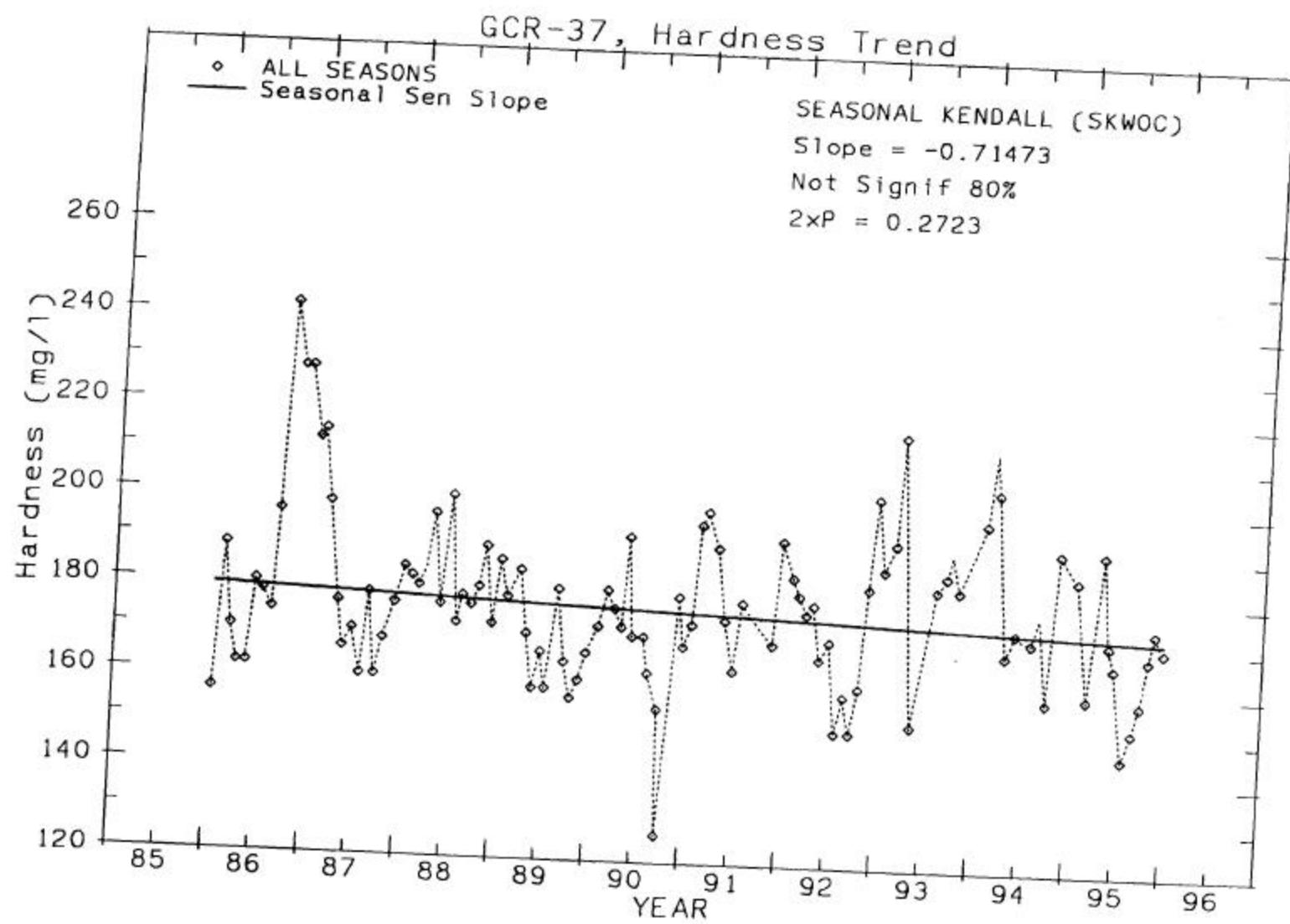


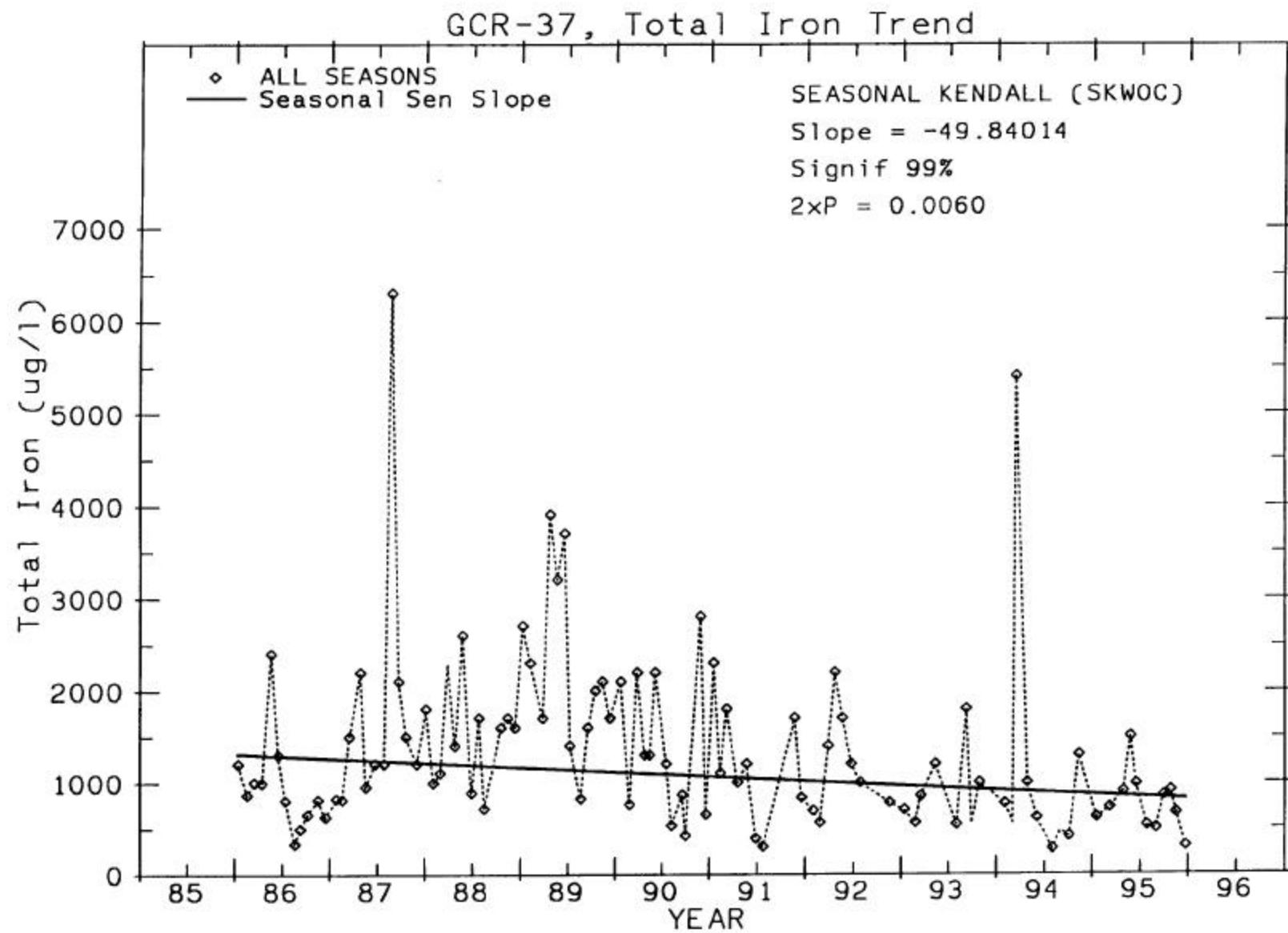
GCR-37, Cyanide Trend



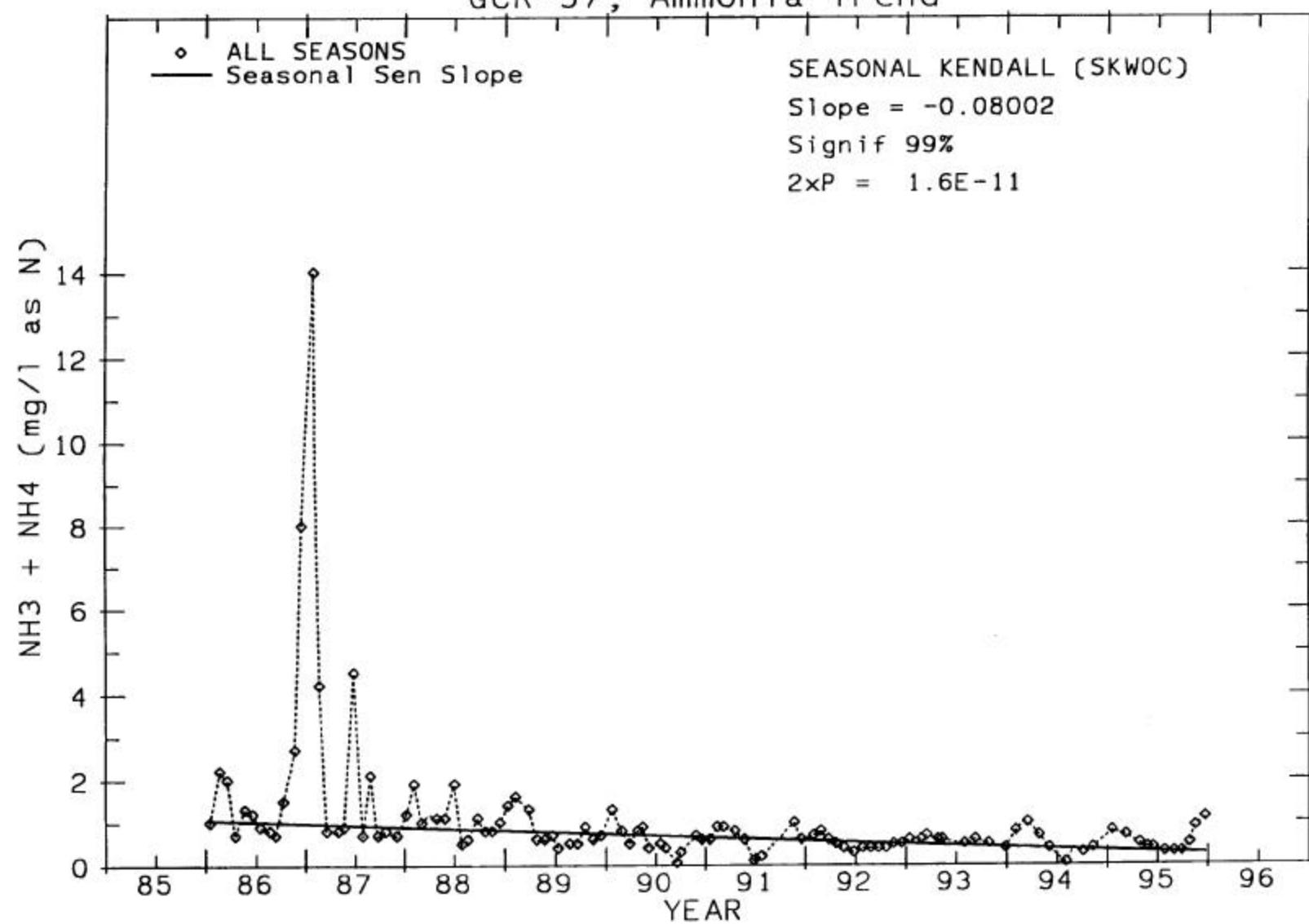


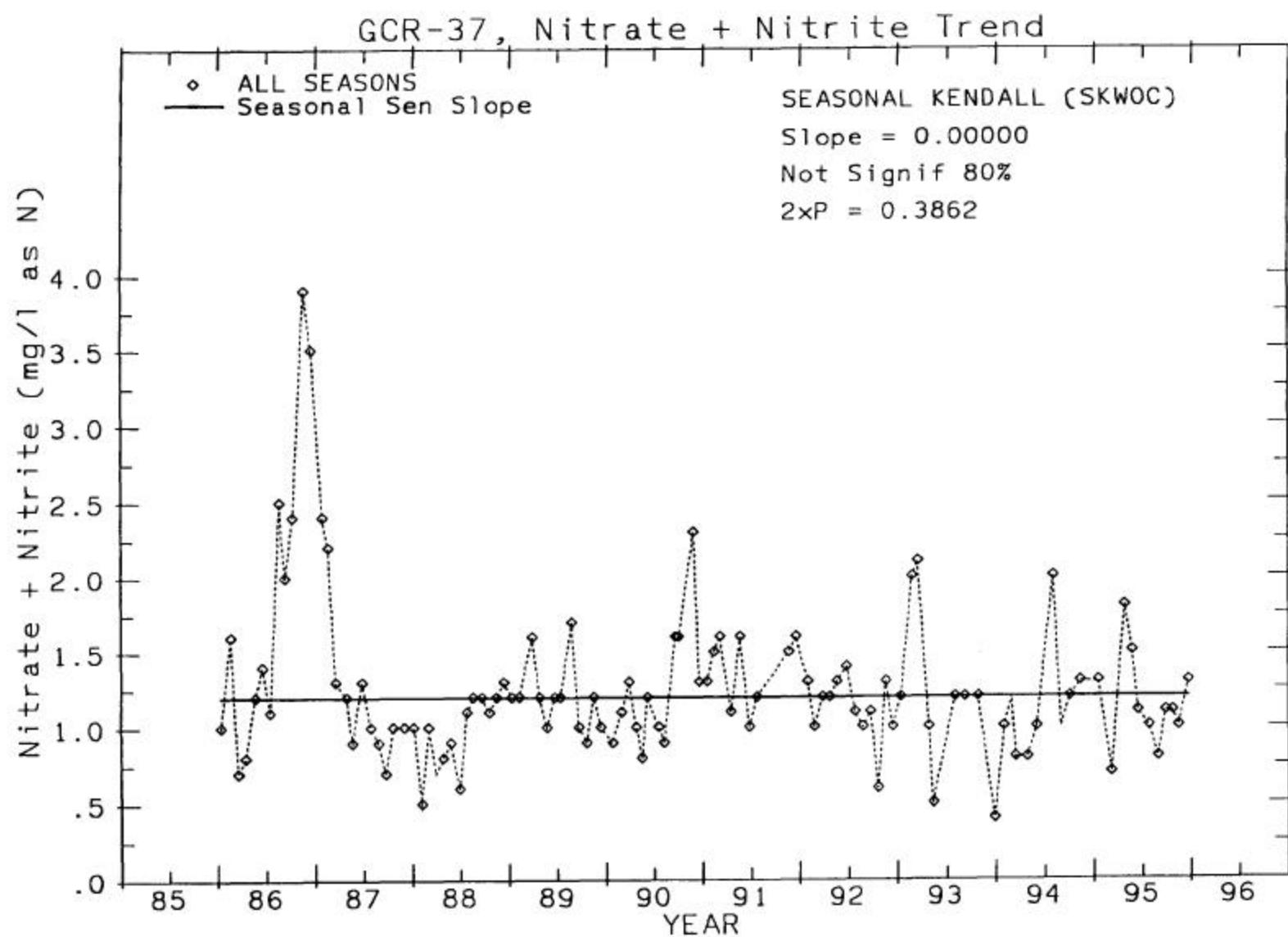


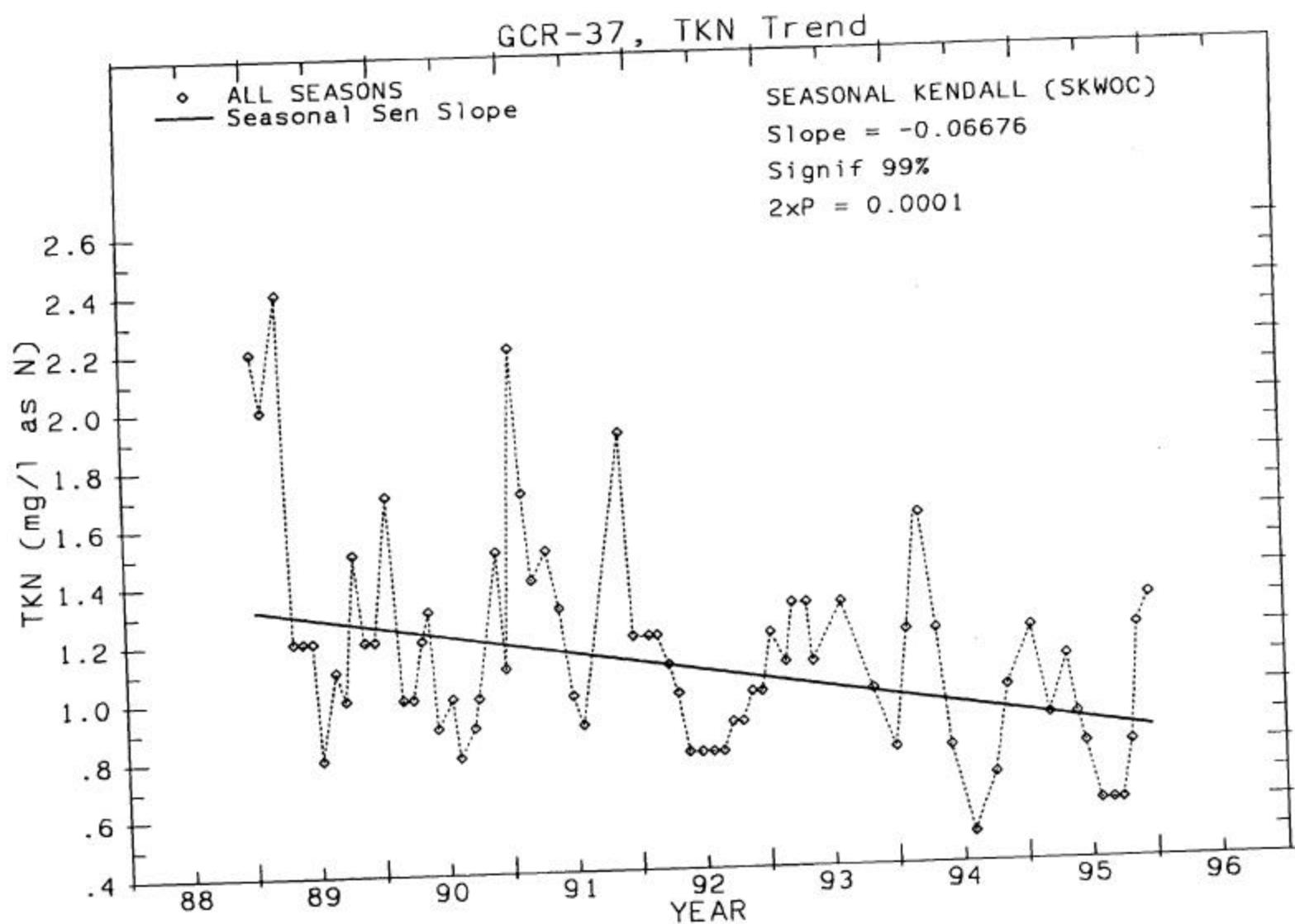


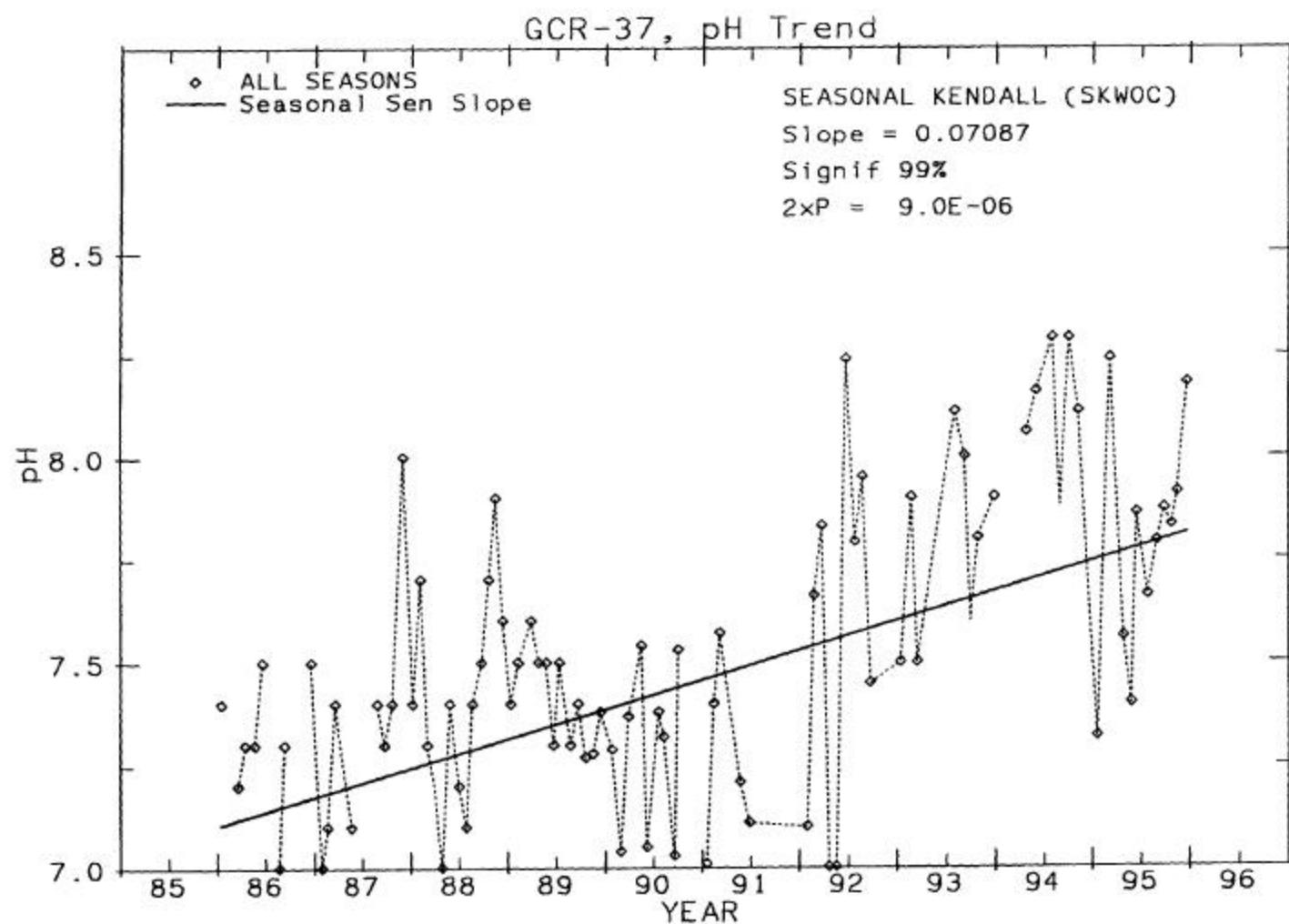


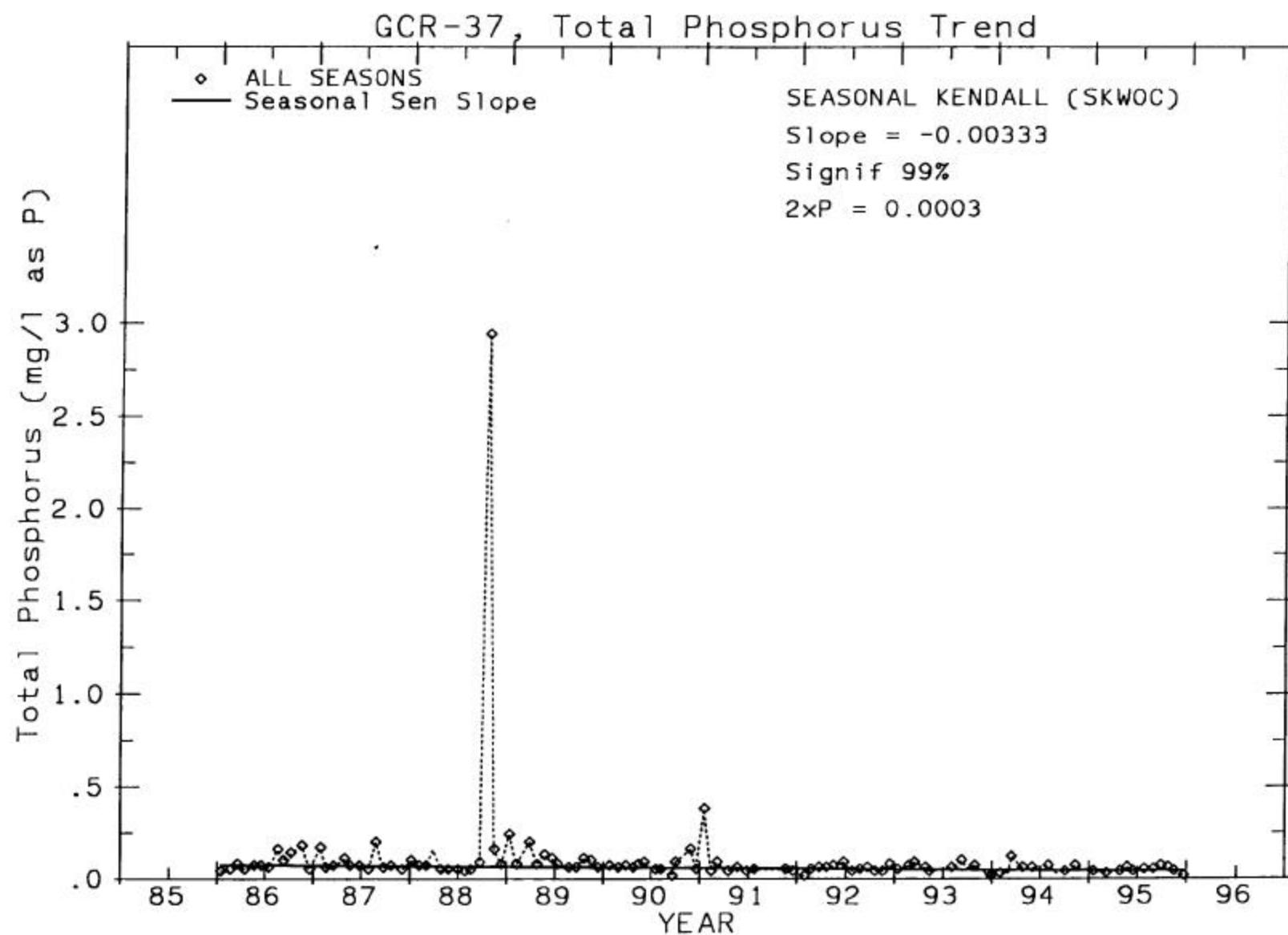
GCR-37, Ammonia Trend

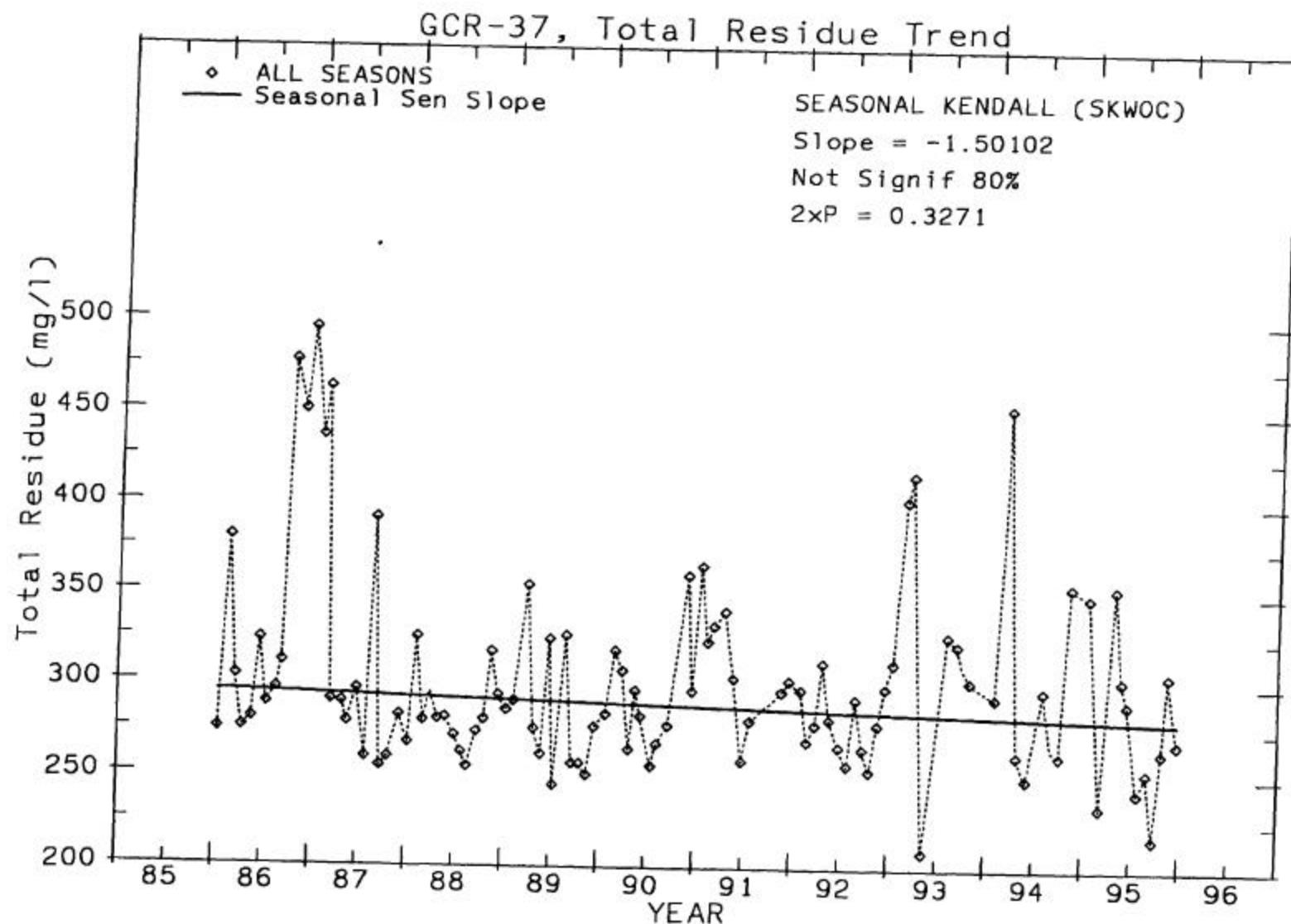


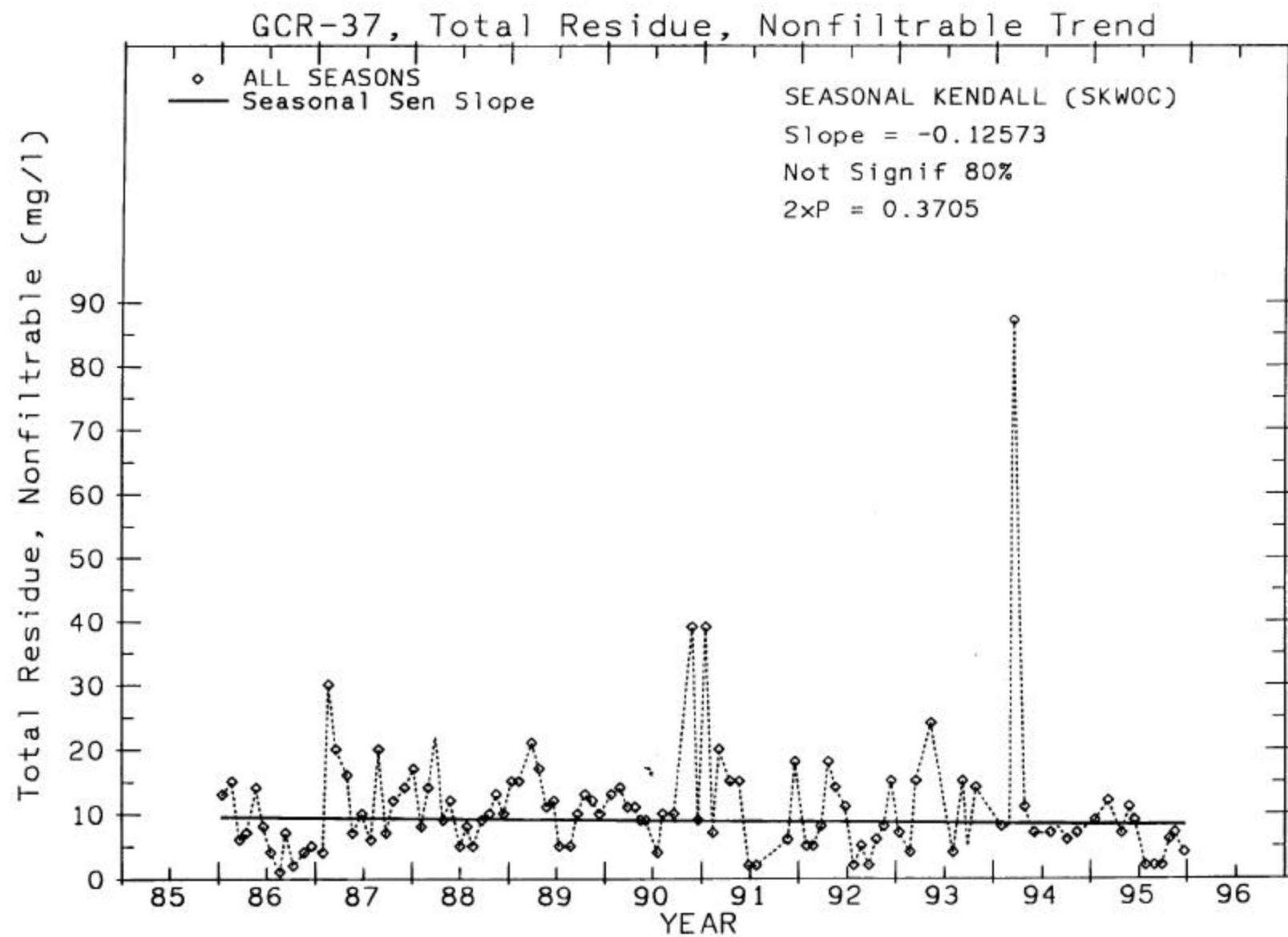


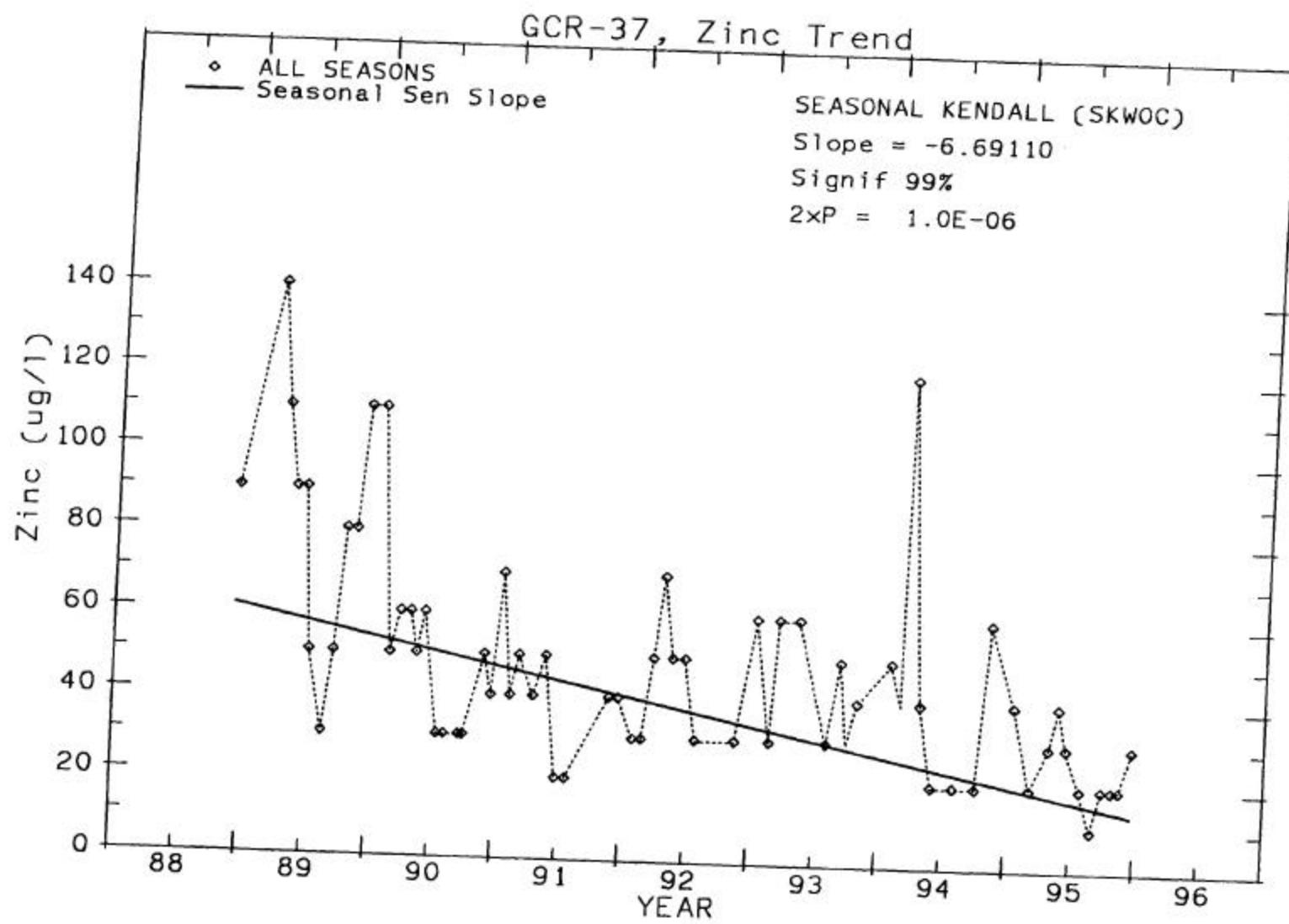




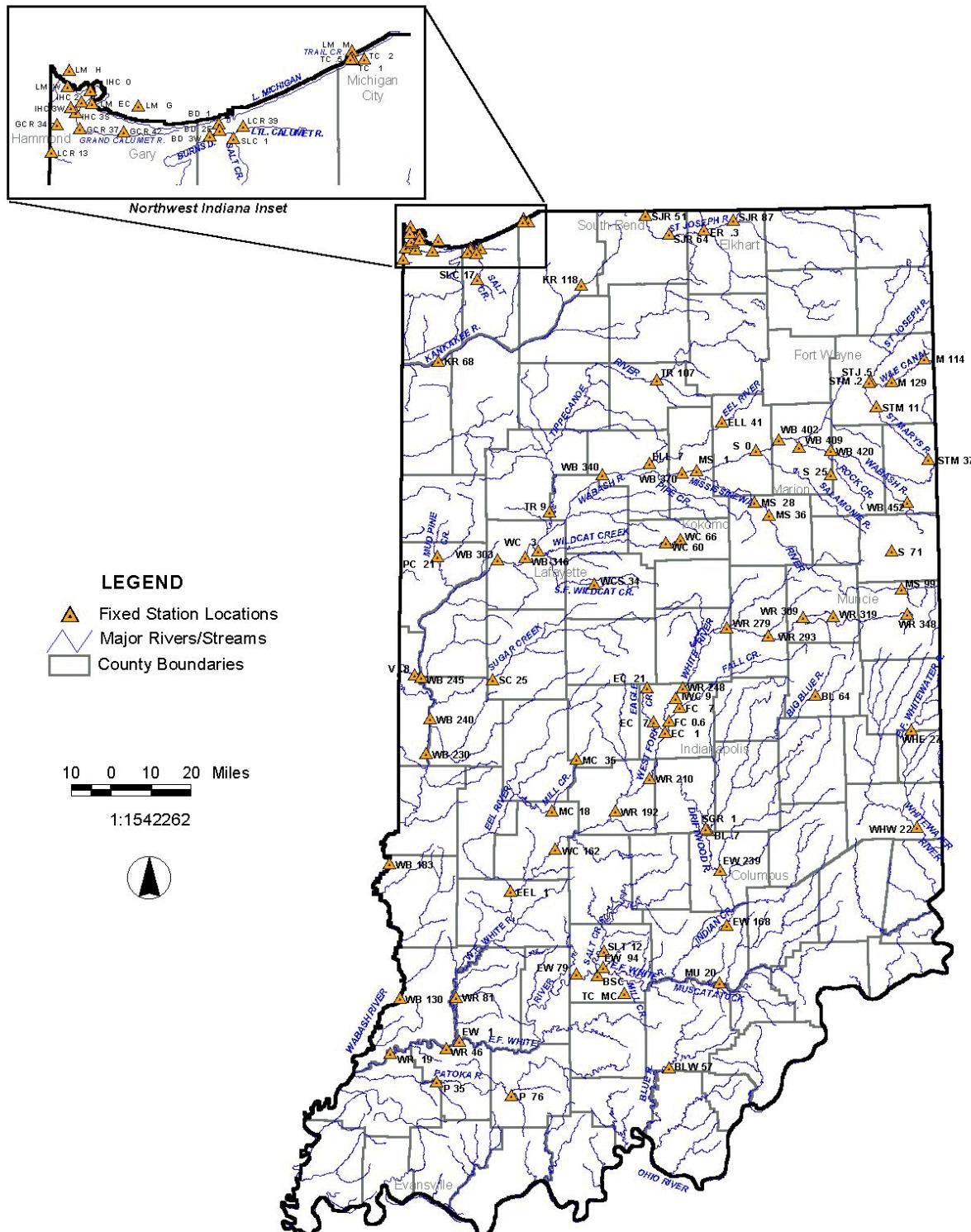








Indiana Fixed Monitoring Stations



Map Reference

Projection: UTM, Zone 16

Printed: May 1998

Plate Preparation: Joanna Wood

IDEML/Office of Water Management
Assessment Branch/Surveys Section

PLATE 1 - Indiana Fixed Monitoring Stations

Indiana Department of Environmental Management (1998). *Indiana Fixed Station Statistical Analysis 1997*, by Carl Christensen, MSES. Indiana Department of Environmental Management, Office of Water Management, Assessment Branch, Surveys Section, Indianapolis, Indiana. IDEM 032/02/005/1998.